Arnold E.
10/688466

FILE 'REGISTRY' ENTERED AT 12:04:24 ON 20 JAN 2006

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 JAN 2006 HIGHEST RN 872163-75-2
DICTIONARY FILE UPDATES: 18 JAN 2006 HIGHEST RN 872163-75-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

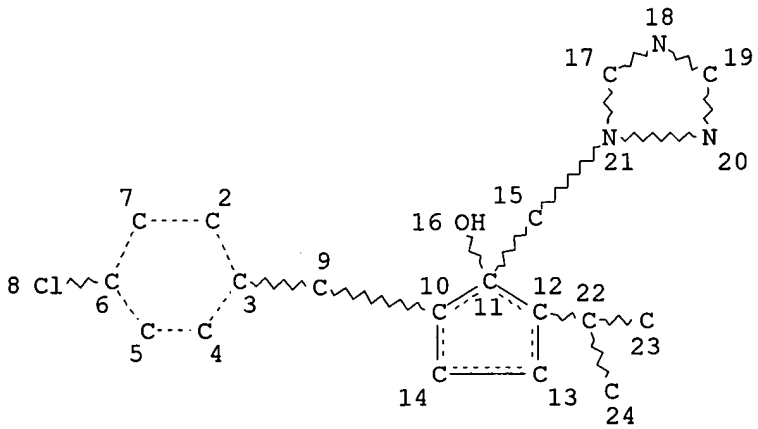
****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

L1 STR

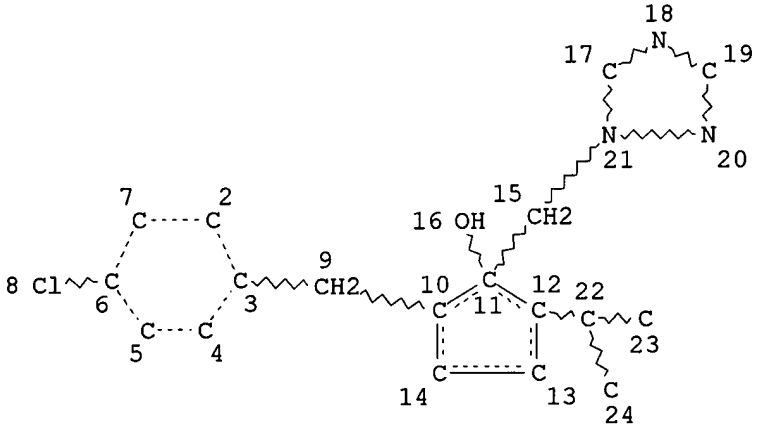


NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

Searcher : Shears 571-272-2528

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
L2 (52) SEA FILE=REGISTRY SSS FUL L1
L3 STR



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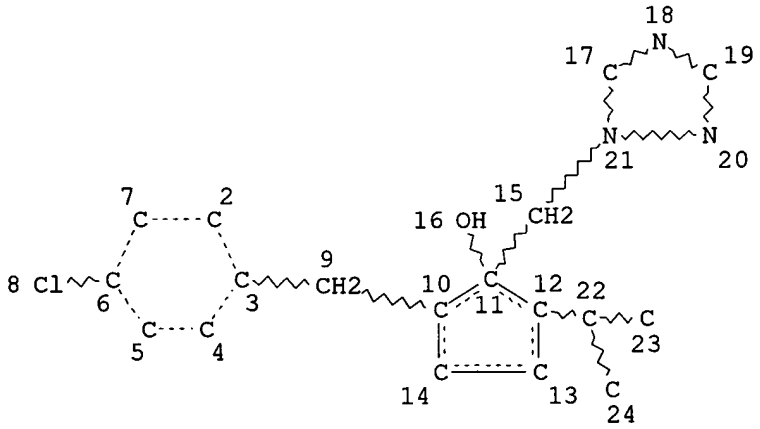
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
L4 (44) SEA FILE=REGISTRY SUB=L2 SSS FUL L3
L5 STR



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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
L6 44 SEA FILE=REGISTRY SUB=L4 SSS FUL L5

100.0% PROCESSED 44 ITERATIONS 44 ANSWERS
SEARCH TIME: 00.00.01

FILE 'CAPLUS' ENTERED AT 12:04:24 ON 20 JAN 2006

FILE COVERS 1907 - 20 Jan 2006 VOL 144 ISS 5
FILE LAST UPDATED: 19 Jan 2006 (20060119/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

L7 99 SEA ABB=ON PLU=ON L6
L8 78 SEA ABB=ON PLU=ON L7 AND (FUNGICID? OR ANTIFUNG? OR ANTI(W)(FUNG? OR ALGA##) OR PESTICID? OR INSECTICID? OR ALGICID? OR ANTIALGA##)
L9 34 SEA ABB=ON PLU=ON L8 NOT (PY=>2003 OR PD=>20031017) ← Eliminate citations dated on or after 10-17-03

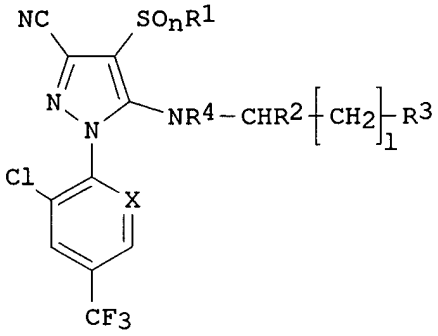
L9 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:514177 CAPLUS
DOCUMENT NUMBER: 137:59011
TITLE: Agrochemical **insecticide** and **fungicide** compositions containing pyrazoles
INVENTOR(S): Fukuchi, Toshiki
PATENT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002193709	A2	20020710	JP 2000-397319	20001227

PRIORITY APPLN. INFO.: JP 2000-397319 20001227

OTHER SOURCE(S): MARPAT 137:59011
GI

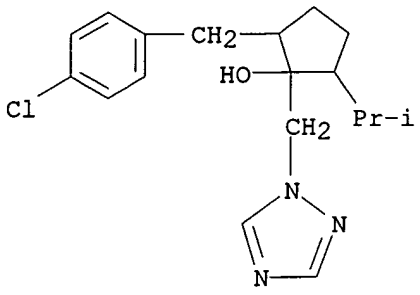


I

AB The compns. contain **insecticidal** pyrazoles I [R1 = C1-4 (halo)alkyl; R2 = H, C1-4 alkyl; R3 = H, OH, C1-4 (halo)alkyl, alkoxy, etc.; R4 = H, C1-4 alkyl, C1-4 acyl; X = N, halo-substituted C; l, n = 0, 1, 2], **insecticidal** compds. controlling Hemiptera and Coleoptera, and **fungicidal** compds. controlling Pyricularia oryzae. The compns. show broad-spectrum and long-lasting **pesticidal** effect and are useful for rice. A granule was prepared from I (R1 = CH2F, R2 = R4 = H, R3 = pyrazin-2-yl, X = CCl, l = n = 0) 1, benfuracarb 5, probenazole 10, bentonite 30, clay 49, and Ca ligninsulfonate 5 weight parts.

IT **125225-28-7**, Ipconazole
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(agrochem. **insecticide** and **fungicide** compns. for rice)

RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:368234 CAPLUS
DOCUMENT NUMBER: 136:381765
TITLE: Synergistic **pesticidal** compositions comprising N-cyanomethyl-4-(trifluoromethyl)nicotinamide
INVENTOR(S): Angst, Max; Rindlisbacher, Alfred; Maienfisch, Peter
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002037964	A1	20020516	WO 2001-EP12947	20011108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002014045	A5	20020521	AU 2002-14045	20011108
PRIORITY APPLN. INFO.:			CH 2000-2189 A	20001110
			WO 2001-EP12947 W	20011108

AB Synergistic compns. for controlling insects or representatives of the order Acarina comprise a combination of variable quantities of N-Cyanomethyl-4-trifluoromethyl-3-pyridinecarboxamide (IKI-220) in free form or in salt form, if appropriate tautomers, in free form or in salt form, and one or more of the compds., such as, for example: abamectin, azamethiphos, bromopropylate, chlorfenvinphos, cypermethrin, cypermethrin high-cis, cyromazin, diafenthiuron, diazinon, dicrotophos, dicyclanil, emamectin, fenoxycarb, lufenuron, methidathion, monocrotophos, profenofos, pymetrozine, tau-fluvalinate, thiamethoxam, azoxystrobin, bensultap, chlorothalonil, fenpyroximate,

fluazinam, flufenprox, flutriafol, lambda-cyhalothrin, phosmet, picoxystrobin, primicarb, pyridaben, tefluthrin, etc. The compns. are used for controlling pests by applying to the pests or their environment, or for protecting plant propagation material, wherein the propagation material or the site of application of the propagation material is treated.

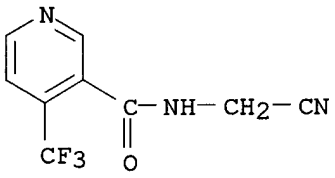
IT **425385-70-2**, Ipconazole-IKI 220 mixture
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(synergistic **pesticidal** compns. comprising)

RN 425385-70-2 CAPLUS

CN 3-Pyridinecarboxamide, N-(cyanomethyl)-4-(trifluoromethyl)-, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

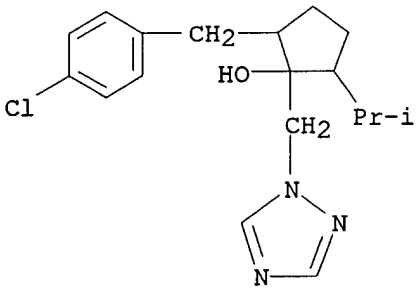
CM 1

CRN 158062-67-0
CMF C9 H6 F3 N3 O



CM 2

CRN 125225-28-7
CMF C18 H24 Cl N3 O



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

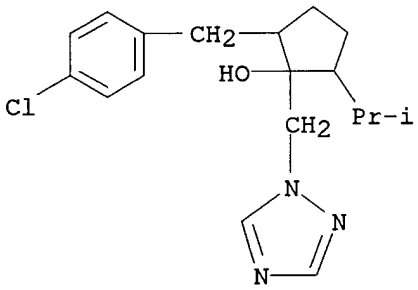
L9 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:806852 CAPLUS
DOCUMENT NUMBER: 136:10244
TITLE: Decomposition of **pesticide** by hydrothermal reaction
AUTHOR(S): Yamashita, Masatada; Miwa, Keiichi; Iwasawa, Hideo
CORPORATE SOURCE: Tech. Dev. Div., Ishikawajima-Harima Heavy Ind.

Co., Ltd., Japan
SOURCE: Ishikawajima-Harima Giho (2001), 41(5), 221-225
CODEN: ISHGAV; ISSN: 0578-7904
PUBLISHER: Ishikawajima-Harima Jukogyo K.K. Gijutsu Kaihatsu Honbu Gijutsu Kikakubu
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB Hydrothermal reaction can be used for decomposition of **pesticide** for vegetable seedlings. A disinfectant, "Benlate T" containing benomyl and thiuram as main components was decomposed completely in 5 min with saturated water at 250°, and "Techlead C Flowable" containing ipconazole as a main component was decomposed in an autoclave-type supercrit. hydrothermal treatment equipment in 10 min at 300°. IR spectroscopy was useful to rapidly confirm the decomposition of the **pesticide.**

IT **125225-28-7,** Ipconazole **146106-17-4,** Techlead C Flowable
RL: AGR (Agricultural use); PEP (Physical, engineering or chemical process); REM (Removal or disposal); BIOL (Biological study); PROC (Process); USES (Uses)
(disinfectant; supercrit. hydrothermal decomposition of **pesticide** in wastewater)

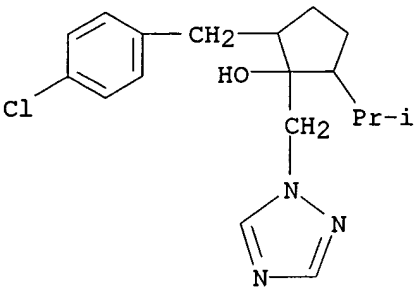
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



RN 146106-17-4 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, mixt. with copper hydroxide (Cu(OH)2) (9CI) (CA INDEX NAME)

CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O



CM 2

CRN 20427-59-2
CMF Cu H2 O2

HO—Cu—OH

L9 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:102887 CAPLUS
DOCUMENT NUMBER: 134:218256
TITLE: Sensitivity of Fusarium moniliforme isolates to ipconazole
AUTHOR(S): Tateishi, Hideaki; Chida, Tsuneaki
CORPORATE SOURCE: Nishiki Research Laboratories, Kureha Chemical Industry Co., Ltd., Iwaki, 974-8686, Japan
SOURCE: Journal of General Plant Pathology (2000), 66(4), 353-359
CODEN: JGPPBQ; ISSN: 1345-2630
PUBLISHER: Phytopathological Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English

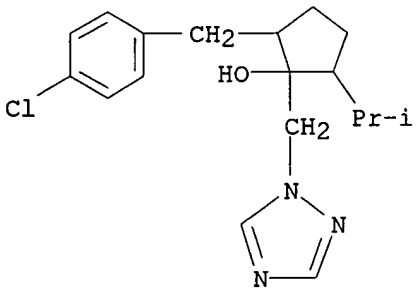
AB To estimate the sensitivity of Fusarium moniliforme to ipconazole, a sterol biosynthesis inhibitor (SBI), min. inhibitory concns. (MIC) were determined for isolates which were collected before the launch of ipconazole as a rice seed disinfectant. Research institutes from various prefectures in Japan supplied 211 isolates (group I) from their collections, and 84 isolates (group II) were isolated from rice paddy fields in Iwaki, Fukushima Prefecture. In group I, the MIC ranged from 0.10 to 6.25 μg/mL with a peak at 0.39 μg/mL. In group II, MIC values had the same range as group I, but the main peak was at 0.20 μg/mL. Ipconazole sensitivity did not differ significantly among groups I and II. Though the ranges of MIC values for ipconazole, pefurazoate and triflumizole were different in 60 isolates randomly chosen from group I, pos. correlations were observed in their sensitivities to SBIs, suggesting a common mechanism in F. moniliforme for lowering sensitivities to SBIs. Among the 14 isolates tested, isolates with MIC values lower than 0.78 μg/mL for ipconazole were pathogenic to rice seedlings, and all the isolates with MIC values higher than or equal to 1.56 μg/mL were not pathogenic in the nursery test. Good protection against isolates causing "Bakanae" disease was obtained by dipping seeds for 24 h in ipconazole. The pathogenic isolates can be controlled by the seed

treatment with the practical dosage of ipconazole because of the adequate margin between the highest MIC value for the pathogenic isolates and the treatment concentration In addition, the low or lack of pathogenicity of the isolates less sensitive to ipconazole may also contribute to the stable efficacy of ipconazole.

IT **125225-28-7**, Ipconazole
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(sensitivity of Fusarium moniliforme isolates to)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

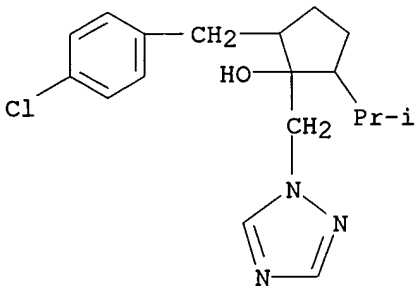
L9 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:847969 CAPLUS
DOCUMENT NUMBER: 134:1598
TITLE: Tickicidal **fungicides** for agriculture and horticulture
INVENTOR(S): Hosokawa, Hiroyasu; Sano, Shinsuke; Segi, Kazukiyo; Yamamoto, Atsushi
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 2000336009	A2	20001205	JP 1999-189298		19990702
PRIORITY APPLN. INFO.:			JP 1999-79695	A	19990324

AB The tickicidal **fungicides** and/or bactericides are prepared from at least one compds. selected from tebufenpyrad, fenpyroximate, pyridaben, pyrimidifen; electron transfer-inhibiting anilinopyrimidine; ergosterol biosynthesis-inhibiting SBI agent; and strobilurin. The tickicidal **fungicides** are synergistic agrochems.

IT **125225-28-7**, Ipconazole
RL: AGR (Agricultural use); BAC (Biological activity or effector,

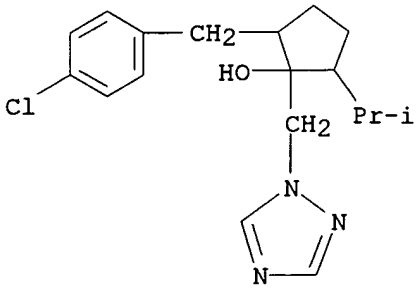
except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(tickicidal **fungicides** for agriculture and horticulture)
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 6 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:847968 CAPLUS
DOCUMENT NUMBER: 134:1597
TITLE: Tickicidal bactericides for agriculture and horticulture
INVENTOR(S): Hosokawa, Hiroyasu; Sano, Shinsuke; Segi, Kazukiyo; Yamamoto, Atsushi
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 2000336008	A2	20001205	JP 1999-189353		19990702
PRIORITY APPLN. INFO.:			JP 1999-79698	A	19990324

AB The tickicidal bactericides are prepared from at least one compds. selected from chlorofenpyrole and dinocarp; electron transfer-inhibiting anilinopyrimidine; ergosterol biosynthesis-inhibiting SBI agent; and strobilurin. The tickicidal bactericides are synergistic agrochems.
IT **125225-28-7**, Ipconazole
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(tickicidal bactericides for agriculture and horticulture)
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



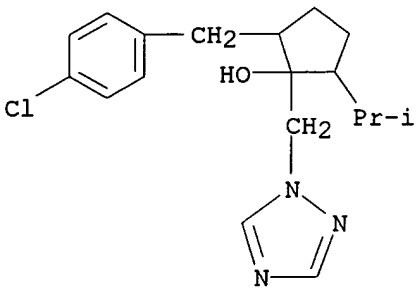
L9 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:731470 CAPLUS
DOCUMENT NUMBER: 133:292299
TITLE: Synergistic seed disinfectants containing triazole compound and tetrakis(hydroxymethyl)phosphonium salts
INVENTOR(S): Nagatsuka, Takayoshi; Kikuchi, Katsumasa
PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000290113	A2	20001017	JP 1999-139024	19990408
PRIORITY APPLN. INFO.:			JP 1999-139024	19990408

AB The seed disinfectants, which are effective against both diseases due to filamentous fungi and those due to bacteria, contain 2-(4-chlorobenzyl)-5-isopropyl-1-(1H-1,2,4-triazol-1-ylmethyl)-1-cyclopentanol (I) and [(HOCH2)4P+]nX (II; n = 1-3; X = sulfate, Cl, phosphate, phosphite, etc.). Soaking unhulled rice inoculated with Burkholderia glumae in a wettable powder containing I and II (n = 2, X = SO4) (III) significantly decreased rates of disease manifestation. A suspension containing I and III also effective against disease due to Gibberella fujikuroi.

IT **125225-28-7D**, mixts. containing **300692-17-5**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(synergistic seed disinfectants containing triazole compound and tetrakis(hydroxymethyl)phosphonium salts effective against both filamentous fungi and bacteria)

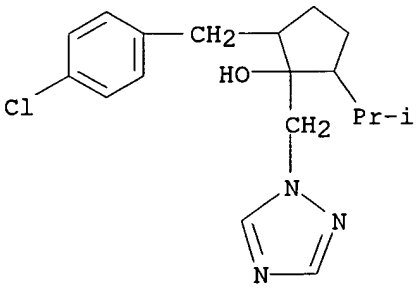
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



RN 300692-17-5 CAPLUS
CN Phosphonium, tetrakis(hydroxymethyl)-, sulfate (2:1) (salt), mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O

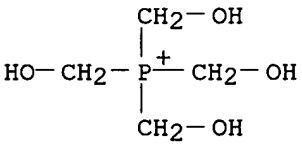


CM 2

CRN 55566-30-8
CMF C4 H12 O4 P . 1/2 O4 S

CM 3

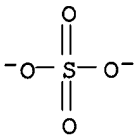
CRN 24655-84-3
CMF C4 H12 O4 P



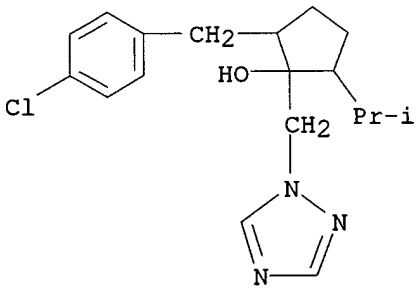
CM 4

CRN 14808-79-8

CMF O4 S



L9 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:636331 CAPLUS
DOCUMENT NUMBER: 133:218749
TITLE: Development of new **fungicides**, ipconazole and metconazole
AUTHOR(S): Kumazawa, Satoru; Ito, Atsushi; Saishoji, Toshihide; Chuman, Hiroshi
CORPORATE SOURCE: Nishiki Res. Lab., Kureha Chem. Ind. Co., Ltd., 16 Ochiai, Nishiki-machi, Iwaki, Fukushima, 974-8686, Japan
SOURCE: Nippon Noyaku Gakkaishi (2000), 25(3), 321-331
CODEN: NNGADV; ISSN: 0385-1559
PUBLISHER: Nippon Noyaku Gakkai
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Japanese/English
AB A review with 23 refs. on history in development of ipconazole and metconazole both having a triazole ring and a benzene ring. Interaction of the **fungicides** with cytochrome P 45014DM and industrial production of the **fungicides** are also discussed.
IT **125225-28-7P**, Ipconazole
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(development of new **fungicides**, ipconazole and metconazole)
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 9 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:553522 CAPLUS
DOCUMENT NUMBER: 133:167521
TITLE: Cement-based joint having antifouling function
INVENTOR(S): Tahara, Shinichi; Akimoto, Jiro; Kobayashi,

Hideki; Fujii, Hiroyuki
PATENT ASSIGNEE(S): Toto Ltd., Japan
SOURCE: PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000046165	A1	20000810	WO 2000-JP657	20000207
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1162182	A1	20011212	EP 2000-902123	20000207
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.:

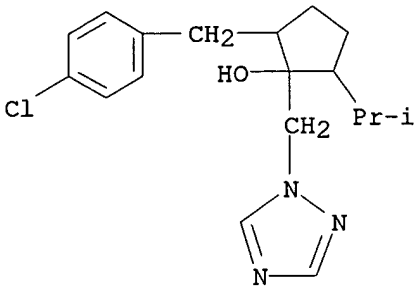
JP 1999-29292	A	19990205
JP 1999-314369	A	19991104
WO 2000-JP657	W	20000207

AB The cement-based joint having antifouling function such as antibacterial and fungi-proof property comprises a hydraulic material, a particulate aggregate having a particle diameter of ≤10 μm, an antimicrobial and **fungicide** and/or a photocatalytic metal oxide and has a H2O absorption of ≤10%. The aggregate is selected from silica sand, Al(OH)3, SiO2 powder, CaCO3, volcanic ash, SiO2 fume, mica, diatomite, and/or polymer powder. The photocatalytic metal oxide is anatase. The joint further contains water repellent at 0.01-10 weight%, selected from fatty acid, fatty acid salt, paraffin emulsion, asphalt emulsion, polymer emulsion, rubber latex, water-soluble polymer, siliceous compds., Zr compds. and organic siliceous acid.

IT **125225-28-7**, Ipconazole
RL: TEM (Technical or engineered material use); USES (Uses)
(antibacterial **fungicide**; antifouling cement-based joints containing granular aggregate and bactericide and/or photocatalytic metal oxide)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



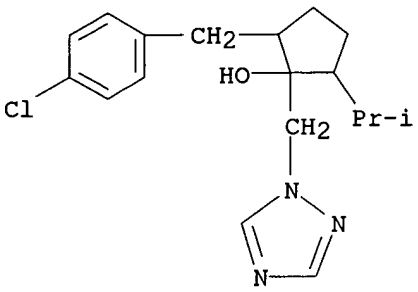
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:800744 CAPLUS
DOCUMENT NUMBER: 132:304481
TITLE: Excess amount of ipconazole-copper **fungicide** as a rice seed disinfectant is a possible cause of suppression of germination and the following growth of rice seedlings
AUTHOR(S): Sayama, Akira; Fukaya, Tomio; Kyoya, Kaoru; Iizuka, Fumio; Obari, Satoru
CORPORATE SOURCE: Akita Prefect. Agric. Exp. Stn., Niida, Akita, 010-1426, Japan
SOURCE: Kitanippon Byogaichu Kenkyukaiho (1999), 50, 35-39
CODEN: KNBKAY; ISSN: 0368-623X
PUBLISHER: Kitanippon Byogaichu Kenkyukai
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB Rice seeds were treated with an ipconazole-Cu **fungicide** suspension at the standard or double dose, soaked in water at 5, 10, or 15° for 8 days, and held at 32° to stimulate germination. The **fungicide** treatment retarded germination and root growth, the effects being remarkable when seeds were treated at the doubled dose. Treated seeds soaked in water at lower temperature required longer periods to stimulate germination, the phenomenon being especially remarkable following treatments at the doubled dose, with a resultant growth retardation at the seedling stage. Soaking treated seeds at lower temperature liberated smaller amts. of Cu into the water from the seeds, and growth retardation was ascribed to larger amts. of Cu remaining on the seeds.

IT **125225-28-7D**, Ipconazole, copper complexes
RL: ADV (Adverse effect, including toxicity); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process)
(rice germination and seedling growth inhibition by seed disinfection with ipconazole copper **fungicide** in relation to soaking temperature effect on Cu release)

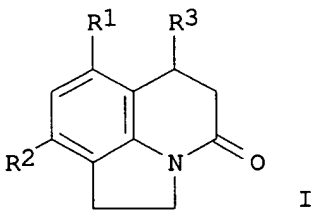
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:518655 CAPLUS
DOCUMENT NUMBER: 131:166500
TITLE: Agrochemical compositions containing 1,2-dihydro- or 1,2,5,6-tetrahydro-4H-pyrrolo(3,2,1-i,j)quinolin-4-ones
INVENTOR(S): Ohta, Hiroshi; Tanaka, Harukazu; Tsuda, Mikio; Ohnishi, Toru; Takahi, Yukiyoshi; Kato, Shigehiro
PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 69 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 11222406	A2	19990817	JP 1998-321906		19981112
PRIORITY APPLN. INFO.:			JP 1997-311799	A	19971113

OTHER SOURCE(S): MARPAT 131:166500
GI



I

AB Agrochem. microbicides contain (1) 1,2-dihydro- or 1,2,5,6-tetrahydro-4H-pyrrolo(3,2,1-i,j)quinolin-4-ones I [R1 = halo, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, C3-7 cycloalkyl(oxy); R2 = H, halo; R3 = H, C1-6 alkyl, C3-7 cycloalkyl; dotted line = single bond, double bond] and (2) ≥1 compound selected from ergosterol biosynthesis inhibitors (EBIs), non-EBI-type agents for control of Pyricularia oryzae or Rhizoctonia solani, hymexazol (salts), phenylamide microbicides, bactericides, organosulfur microbicides, benzimidazole microbicides, organophosphorus **insecticides**, carbamate **insecticides**, synthetic pyrethroid

insecticides, neonicotinoid **insecticides**, benzoylhydrazine **insecticides**, phenylpyrazole **insecticides**, nereistoxin **insecticides**, plant growth regulators, sulfonylurea herbicides, agents for control of Echinochloa or Cyperaceae, azole-type bleaching herbicides, and triazine herbicides. **Insecticides**, plant growth regulators, and herbicides containing the compns. and their uses are also claimed. Concomitant application of 7-fluoro-1,2,5,6-tetrahydro-4H-pyrrolo[3,2,1-i,j]quinolin-4-one (preparation given) and 2-(4-fluorophenyl)-1-(1H-1,2,4-triazol-1-yl)-3-trimethylsilyl-2-propanol at 10 and 20 g/10 are, resp. showed 98% control of Pyricularia oryzae in rice.

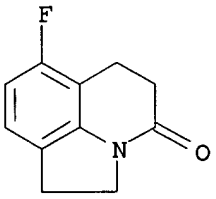
IT **238070-49-0**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(agrochem. **fungicides** containing 1,2-dihydro- or 1,2,5,6-tetrahydro-4H-pyrrolo(3,2,1-i,j)quinolin-4-ones)

RN 238070-49-0 CAPLUS

CN 4H-Pyrrolo[3,2,1-ij]quinolin-4-one, 7-fluoro-1,2,5,6-tetrahydro-, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

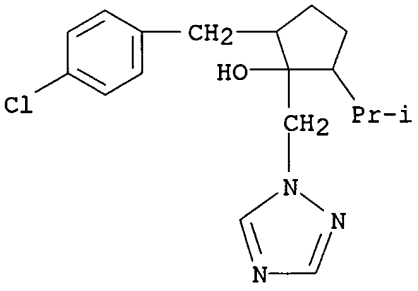
CM 1

CRN 199526-83-5
CMF C11 H10 F N O



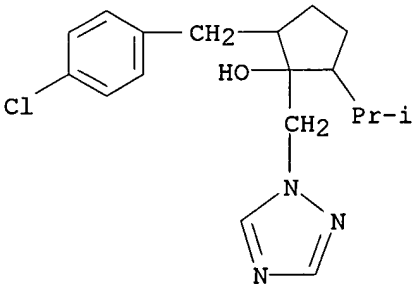
CM 2

CRN 125225-28-7
CMF C18 H24 Cl N3 O



IT **125225-28-7**, Ipconazole
RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(agrochem. **fungicides** containing 1,2-dihydro- or 1,2,5,6-tetrahydro-4H-pyrrolo(3,2,1-i,j)quinolin-4-ones and)
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



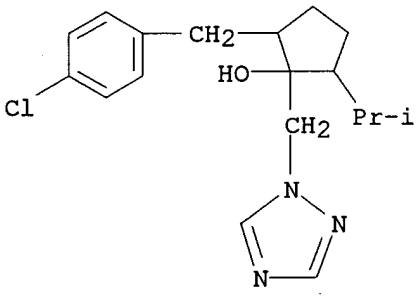
L9 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:80709 CAPLUS
DOCUMENT NUMBER: 130:206220
TITLE: **Antifungal** properties of the seed disinfectant ipconazole and its protection against "Bakanae" and other diseases of rice
AUTHOR(S): Tateishi, Hideaki; Saishoji, Toshihide; Suzuki, Toji; Chida, Tsuneaki
CORPORATE SOURCE: Nishiki Research Laboratories, Kureha Chemical Industry Co., Ltd., Iwaki, 974-8686, Japan
SOURCE: Nippon Shokubutsu Byori Gakkaiho (1998), 64(5), 443-450
CODEN: NSBGAM; ISSN: 0031-9473
PUBLISHER: Nippon Shokubutsu Byori Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The rice seed disinfectant, ipconazole, had **antifungal** in vitro activities against a wide range of plant pathogenic fungi from the Ascomycotina, Basidiomycotina, Deuteromycotina and Zygomycotina. Most of the EC50 values for the tested fungi did not exceed 0.5 μg/mL. Seed treatments with wettable powder containing 6% ipconazole protected against the major rice seed-borne and soil-borne diseases, "Bakanae" disease, Helminthosporium leaf spot, blast and seedling blights caused by Rhizopus sp. and Trichoderma viride. High concns. of residual ipconazole, which varied with the method of application, were detected by HPLC on the outer portion of seeds. Regardless of the method, the residual ipconazole in the intact seeds remained nearly the same after a period of water soaking. The isolation frequencies of Fusarium moniliforme, the causal fungus of "Bakanae" disease, from infected, untreated rice seeds were 75%, 25% and 15% from hulls, endosperm and embryo, resp. Ipconazole permeated into the seeds in a sufficient amount to be fungitoxic or fungistatic during treatment conditions and successive water soaking. In shake culture, mycelial growth of F. moniliforme was reduced by 50% and gibberellin production was totally inhibited by 0.1 μM of ipconazole. The inhibition of gibberellin production at the fungistatic concentration may partially contribute to its activity against "Bakanae" disease. In a

paddy trial, ipconazole-treated seedlings showed no "Bakanae" symptom through harvest time. The protective action of ipconazole appears to consist of both **fungicidal** and fungistatic activities.

IT **125225-28-7**, Ipconazole
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(control of rice fungal diseases with ipconazole)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:49146 CAPLUS

DOCUMENT NUMBER: 130:164329

TITLE: Surface-modified inorganic powders for prevention of hard caking or precipitation of **pesticide** compositions, and the compositions

INVENTOR(S): Kurita, Kazunori; Ikeuchi, Toshihiro; Toyooka, Katsushi

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11012110	A2	19990119	JP 1997-181824	19970624
PRIORITY APPLN. INFO.:			JP 1997-181824	19970624

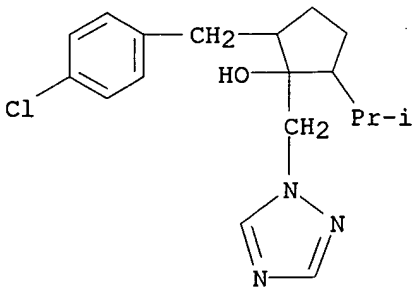
AB The title compns. contain **pesticides** and inorg. fine powders surface-modified with water-soluble cationic copolymers. A wettable powder containing ipconazole 5, surface-modified CaCO3 (AFF 95) 50, polyoxyethylene alkyl allyl ether sulfate (Dikssol WK) 2, β-naphthalenesulfonic acid-HCHO copolymer Na salt (Demol N) 2, diatomaceous earth 15, and clay 26 weight parts could be quickly redispersed by shaking after 24-h storage in H2O.

IT **125225-28-7**, Ipconazole
RL: AGR (Agricultural use); PRP (Properties); BIOL (Biological study); USES (Uses)

(inorg. powders surface-modified with cationic polymers for prevention of hard caking or precipitation of **pesticide** compns.)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 14 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:537785 CAPLUS

DOCUMENT NUMBER: 129:132537

TITLE: Synergistic **fungicidal** compositions

INVENTOR(S): Bruhn, John Anthony; Crompton, Martina Cajnar; Foor, Stephen Ray

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 67 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

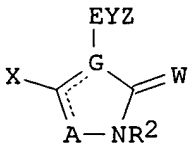
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9833382	A1	19980806	WO 1998-US1382		19980126
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
AU 9860403	A1	19980825	AU 1998-60403		19980126
PRIORITY APPLN. INFO.:			US 1997-36066P	P	19970130
			WO 1998-US1382	W	19980126

OTHER SOURCE(S): MARPAT 129:132537

GI



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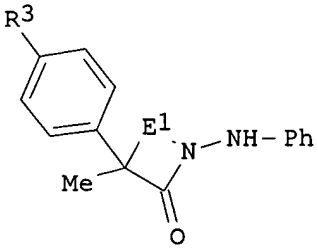


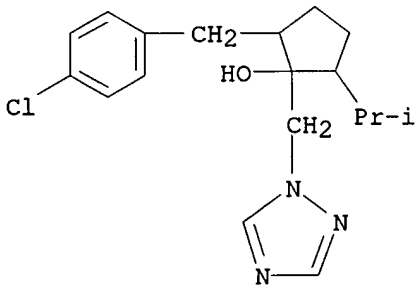
II

AB Synergistic **fungicidal** combinations comprise I [E = (un)substituted 1,2-phenylene, heterocyclic ring, etc.; A = O, S N, etc.; G = C or N; W = O, S, NH, etc.; X = H, OR1, halo, alkyl, etc.; R1 = (halo)alkyl, (halo)alkenyl, etc. R2 = H, (halo)alkyl, alkenyl, OH, etc.; Y = O, SO, CO, CH:CH, etc.; Z = (un)substituted alkyl, alkenyl, alkynyl, etc.], I oxides or I salts and II [E1 = N:C(SMe) or OC:O; R3 = H or PhO], II N-oxides or salts or a sterol biosynthesis-inhibiting **fungicide**. The synthesis of some of the compds. is given.

IT **125225-28-7D**, Ipconazole, mixts. containing
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic **fungicidal** compns.)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 15 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:161159 CAPLUS

DOCUMENT NUMBER: 128:201924

TITLE: Synergistic **fungicidal** compositions comprising lipochitooligosaccharides

INVENTOR(S): John, Michael; Roehrig, Horst; Walden, Richard; Schmidt, Juergen; Schreier, Peter; Stenzel, Klaus; Dutzmann, Stefan

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 30 pp.
CODEN: GWXXBX

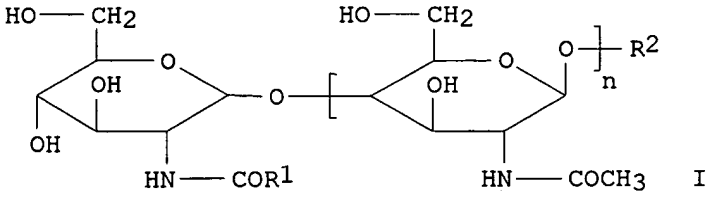
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19633502	A1	19980226	DE 1996-19633502	19960820
PRIORITY APPLN. INFO.:			DE 1996-19633502	19960820

OTHER SOURCE(S): MARPAT 128:201924
GI



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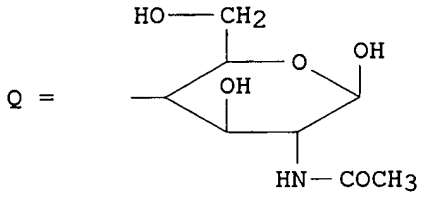
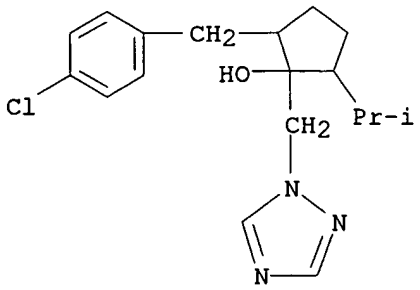


AB The title compns. comprise the lipochitooligosaccharides I (R1 = C2-20 alkenyl; R2 = H or Q; n = 0 or 1-4) and azolyl derivative **fungicides** or **fungicides** which inhibit the mitochondrial respiratory chain at the b/c1 complex. Preparation of I is given.

IT **125225-28-7D**, Ipconazole, mixts. with lipochitooligosaccharides
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic **fungicidal** compns.)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



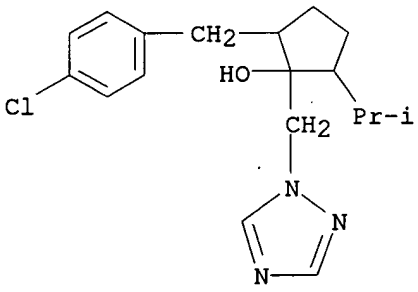
Searcher : Shears 571-272-2528

L9 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:587258 CAPLUS
DOCUMENT NUMBER: 127:216382
TITLE: Labor-saving control of rice plant diseases with seed disinfectants
INVENTOR(S): Yamamura, Hiroshi; Hiramatsu, Motohiro; Tsukahara, Shinji
PATENT ASSIGNEE(S): Hokko Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09224424	A2	19970902	JP 1996-57034	19960221
PRIORITY APPLN. INFO.:			JP 1996-57034	19960221

AB Rice plant diseases are controlled by treating germination-promoted rice seeds with disinfectants other than pefurazoate, seeding in a box, and covering with soil. Rice seeds were treated with a benomyl-containing wettable powder at 30,000 ppm to show 98% control of Gibberella fujikuroi. A wettable powder was prepared from benomyl 50, polyoxyethylene nonylphenyl ether 2, Na ligninsulfonate 3, white carbon 1, and clay 44 weight parts.

IT **125225-28-7**, Ipconazole
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(control of rice plant diseases with seed disinfectants)
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:353683 CAPLUS
DOCUMENT NUMBER: 127:50595
TITLE: Synthesis of stereoisomers of ipconazole and their **fungicidal** and plant growth inhibitory activities
AUTHOR(S): Ito, Atsushi; Saishoji, Toshihide; Kumazawa, Satoru

CORPORATE SOURCE: Nishiki Res. Lab., Kureha Chem. Ind. Co., Ltd., Iwaki, 974, Japan
SOURCE: Nippon Noyaku Gakkaishi (1997), 22(2), 119-125
CODEN: NNGADV; ISSN: 0385-1559
PUBLISHER: Nippon Noyaku Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

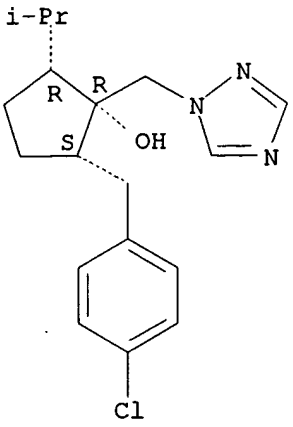
AB Two racemic diastereomers (±)-I and (±)-II, both of which are active ingredient of a seed treatment **fungicide** on rice, ipconazole, (1RS,2SR,5RS;1RS,2SR,5SR)-2-(4-chlorobenzyl)-5-isopropyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol, and 2 other racemic diastereomers (±)-III (1RS,2RS,5RS) and (±)-IV (1RS,2RS,5SR) were synthesized, and their **fungicidal** activity and plant growth inhibitory activity were examined Enantiomers of I and II were prepared, and their **fungicidal** activities were also examined Racemic diastereomers (±)-I, (±)-II, and (±)-IV were more active than (±)-III in **fungicidal** activity (EC50 value) in vitro on Gibberella fujikuroi, Cochliobolus miyabeanus, and Pyricularia oryzae. In plant growth inhibitory activity test for seed treatment on rice, only (±)-IV was slightly active in the 1st sheath growth inhibition. The comparative test of enantiomers in vitro revealed that the **fungicidal** activities of (-)-I and (-)-II were higher than those of corresponding (+)-I and (+)-II, resp.

IT **127307-54-4P 127307-68-0P 191166-39-9P 191166-47-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of stereoisomers of ipconazole and their **fungicidal** and plant growth inhibitory activities)

RN 127307-54-4 CAPLUS

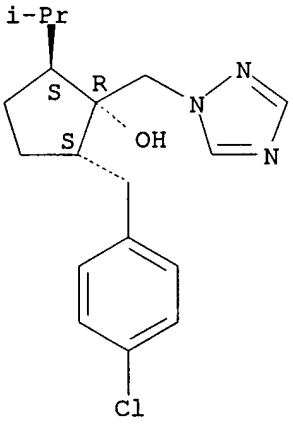
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, [1R-(1α,2α,5α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



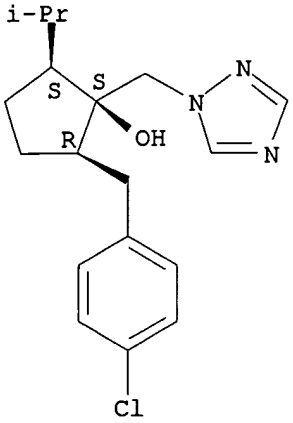
RN 127307-68-0 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, [1R-(1α,2α,5β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



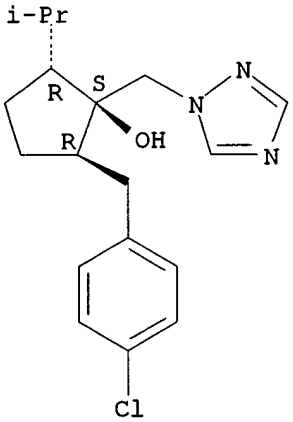
RN 191166-39-9 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, [1S-(1α,2α,5α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



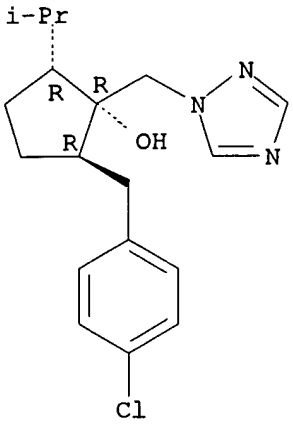
RN 191166-47-9 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, [1S-(1α,2α,5β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



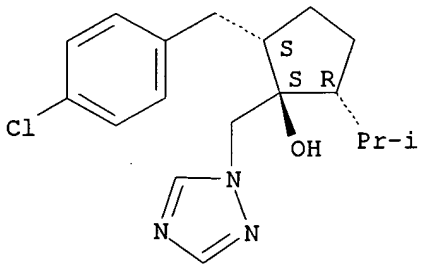
IT **115937-88-7P 127307-70-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of stereoisomers of ipconazole and their **fungicidal** and plant growth inhibitory activities)
RN 115937-88-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2β,5α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 127307-70-4 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, [1S-(1α,2β,5β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:628614 CAPLUS
DOCUMENT NUMBER: 125:268186
TITLE: **Fungicidal** mixtures
INVENTOR(S): Berger, Richard Alan; Reap, James John
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 12 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9627290	A1	19960912	WO 1996-US2996	19960305

W: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

CA 2214772	AA	19960912	CA 1996-2214772	19960305
AU 9650925	A1	19960923	AU 1996-50925	19960305
AU 695848	B2	19980827		
EP 813363	A1	19971229	EP 1996-907180	19960305
EP 813363	B1	19990804		
R: DE, ES, FR, GB, GR, IT				
BR 9607957	A	19980714	BR 1996-7957	19960305
JP 11501630	T2	19990209	JP 1996-527010	19960305
ES 2136978	T3	19991201	ES 1996-907180	19960305
PL 183845	B1	20020731	PL 1996-322102	19960305
PRIORITY APPLN. INFO.:			US 1995-399059 A2	19950308
			WO 1996-US2996 W	19960305

AB A water-emulsifiable formulation comprises 1-20 % by weight noncryst. 5-methyl-5-(4-phenoxyphenyl)-3-(phenylamino)-2,4-oxazolidinedione (OAD) and a **fungicidal** triazole, triazole being present in a weight ratio to OAD between 1:9 and 9:1 which is effective to inhibit crystallization of OAD in formulation. The formulation is diluted in a spray tank with water to form an aqueous mixture containing a combination of OAD and **fungicidal** triazole.

IT **182251-32-7**
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(stable **fungicidal** composition)

RN 182251-32-7 CAPLUS

CN 2,4-Oxazolidinedione, 5-methyl-5-(4-phenoxyphenyl)-3-(phenylamino)-, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

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CRN 131807-57-3
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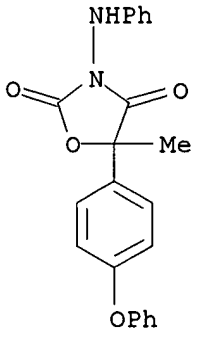
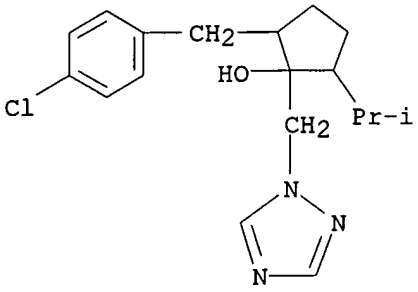


CM 2

CRN 125225-28-7
CMF C18 H24 Cl N3 O



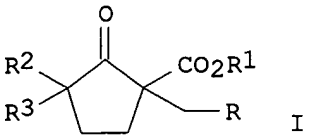
L9 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:999745 CAPLUS
DOCUMENT NUMBER: 124:48311
TITLE: Wettable compositions for seed sterilization
INVENTOR(S): Kurotsu, Juichi; Noguchi, Tatsuo; Nabeya, Yoshihiko; Yonemura, Shinji
PATENT ASSIGNEE(S): Hokko Chem Ind Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07252103	A2	19951003	JP 1994-66416	19940311
JP 3257896	B2	20020218		
PRIORITY APPLN. INFO.:			JP 1994-66416	19940311

AB Wettable compns. contain (a) active ingredients, (B) urea, sugars, and/or modified starch as water-soluble extenders, and (C) nonionic and/or anionic surfactants at a such amount so that the surface tension of a dispersion, in which the resulting wettable compns. are dispersed in 10 weight parts H2O, show 25-55 mN/m at 20°. Ppts., formed when a larger amount of compns. are dispersed in H2O, are easily redispersed by shaking. Benomyl 20, polyoxyethylene sorbitan fatty acid ester 5, and urea 75 parts were pulverized to give a wettable powders.

IT **125225-28-7**, Ipconazole
RL: AGR (Agricultural use); PRP (Properties); BIOL (Biological study); USES (Uses)
(wettable seed sterilizing compns. containing surfactants and urea and/or sugars as extenders with good redispersibility)

RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



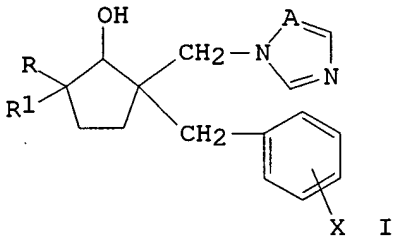
I

AB Title compds. [I; R = (un)substituted Ph; R1,R3 = alkyl; R2 = H or alkyl] were prepared by alkylation of I (R2 = H or alkyl; R3 = H) by an alkyl halide in the presence of an alkali metal hydroxide and a mol. sieve.

L18 ANSWER 4 OF 4 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 118:98292 MARPAT
TITLE: Cut flower preservatives comprising 2-bromo-2-nitro-1,3-propanediol and an azole
INVENTOR(S): Watanabe, Takeo; Arahira, Masato; Murakami, Aiko
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo K. K., Japan
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 517212	A1	19921209	EP 1992-109454	19920604
EP 517212	B1	19960424		
R: DE, FR, GB, IT, NL				
JP 04360802	A2	19921214	JP 1991-162474	19910607
JP 2938223	B2	19990823		
PRIORITY APPLN. INFO.:			JP 1991-162474	19910607

GI



I

AB Cut flower preservatives comprise an azole I (A = N, CH; R, R1 = H, C1-3 alkyl; X = H, halo) and 2-bromo-2-nitro-1,3-propanediol (II). A solution containing I (R = iso-Pr, R1 = H, X = 4-Cl, A = N) (stereoisomeric form) 0.0015, II 0.005, glucose 0.75, citric acid 0.05, and water 99.1935 parts kept cut rose flowers fresh for 11 days, compared to 5 days for cut rose flowers kept in water.

FILE 'HOME' ENTERED AT 12:08:17 ON 20 JAN 2006

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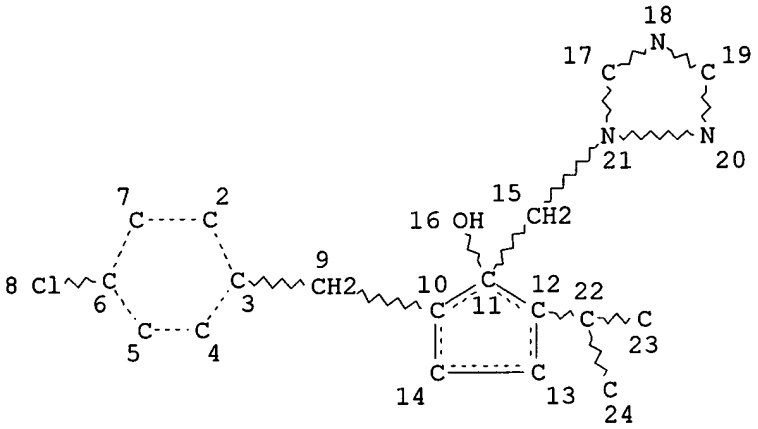
L5 STR



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GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

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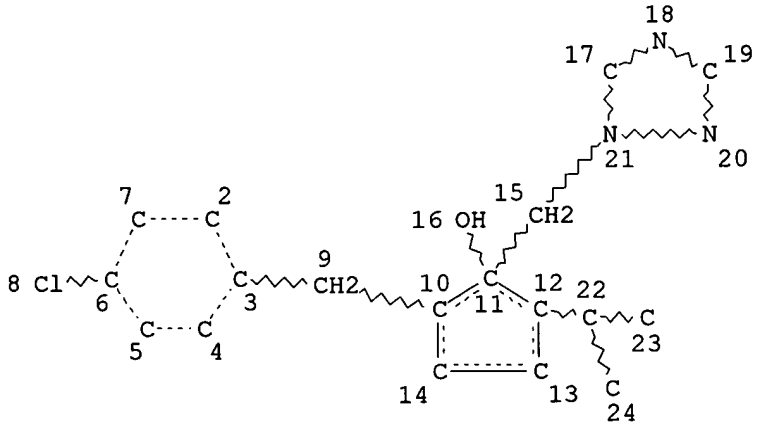

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  23

STEREO ATTRIBUTES: NONE

ATTRIBUTES SPECIFIED AT SEARCH-TIME:
ECLEVEL IS LIM ON ALL NODES
ALL RING(S) ARE ISOLATED

L18           4 SEA FILE=MARPAT SSS FUL L5 (MODIFIED ATTRIBUTES)

100.0% PROCESSED    3744 ITERATIONS                          4 ANSWERS
SEARCH TIME: 00.00.02



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                ACT ARNOL/A
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L1                STR
L2  (          52)SEA SSS FUL L1
L3                STR
L4  (          44)SEA SUB=L2 SSS FUL L3
L5                STR
L6             44 SEA SUB=L4 SSS FUL L5
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L9             34 SEA ABB=ON  PLU=ON  L8 NOT (PY=>2003 OR PD=>20031017)

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L10           0 SEA ABB=ON  PLU=ON  L6

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                D QUE STAT
L18           4 SEA SSS FUL L5 (MODIFIED ATTRIBUTES)
                D QUE STAT
                D 1-4 .BEVMAR1

      FILE 'HOME' ENTERED AT 12:08:17 ON 20 JAN 2006
                D QUE STAT L5
                D QUE STAT L18


      FILE CAPLUS

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      FILE COVERS 1907 - 20 Jan 2006  VOL 144 ISS 5
      FILE LAST UPDATED: 19 Jan 2006  (20060119/ED)

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      FILE REGISTRY
      Property values tagged with IC are from the ZIC/VINITI data file
      provided by InfoChem.

      STRUCTURE FILE UPDATES:   18 JAN 2006  HIGHEST RN 872163-75-2
      DICTIONARY FILE UPDATES:  18 JAN 2006  HIGHEST RN 872163-75-2
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New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMI for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE CAOLD
FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

FILE USPATFULL
FILE COVERS 1971 TO PATENT PUBLICATION DATE: 19 Jan 2006 (20060119/PD)
FILE LAST UPDATED: 19 Jan 2006 (20060119/ED)
HIGHEST GRANTED PATENT NUMBER: US6988280
HIGHEST APPLICATION PUBLICATION NUMBER: US2006015978
CA INDEXING IS CURRENT THROUGH 19 Jan 2006 (20060119/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 19 Jan 2006 (20060119/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

FILE MEDLINE
FILE LAST UPDATED: 19 JAN 2006 (20060119/UP). FILE COVERS 1950 TO DA

On December 11, 2005, the 2006 MeSH terms were loaded.

Searcher : Shears 571-272-2528

The MEDLINE reload for 2006 will soon be available. For details on the 2005 reload, enter HELP RLOAD at an arrow promt (=>). See also:

http://www.nlm.nih.gov/mesh/
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.ht
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate

FILE BIOSIS
FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 19 January 2006 (20060119/ED)

FILE EMBASE
FILE COVERS 1974 TO 19 Jan 2006 (20060119/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

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FILE AGRICOLA

FILE COVERS 1970 TO 6 Jan 2006 (20060106/ED)

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FILE CABA
FILE COVERS 1973 TO 6 Jan 2006 (20060106/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

The CABA file was reloaded 7 December 2003. Enter HELP RLOAD for deta

FILE CROPU
FILE LAST UPDATED: 5 JAN 2004 <20040105/UP>
FILE COVERS 1985 TO 2003

>>> CROPU WILL NO LONGER BE UPDATED AS OF 2004 <<<

Searcher : Shears 571-272-2528

>>> EFFECTIVE JAN 1, 2004, THE 70% DISCOUNT FOR
DERWENT CROP PROTECTION SUBSCRIBERS WILL BE NO
LONGER VALID <<<

FILE CROPB
FILE LAST LOADED: 11 NOV 94 <941111/UP>
>>> EFFECTIVE JAN 1, 2004, THE 70% DISCOUNT FOR
DERWENT CROP PROTECTION SUBSCRIBERS WILL BE NO
LONGER VALID <<<

FILE MARPAT
FILE CONTENT: 1969-PRESENT (VOL 144 ISS 3 (20060116/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1969-1987

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

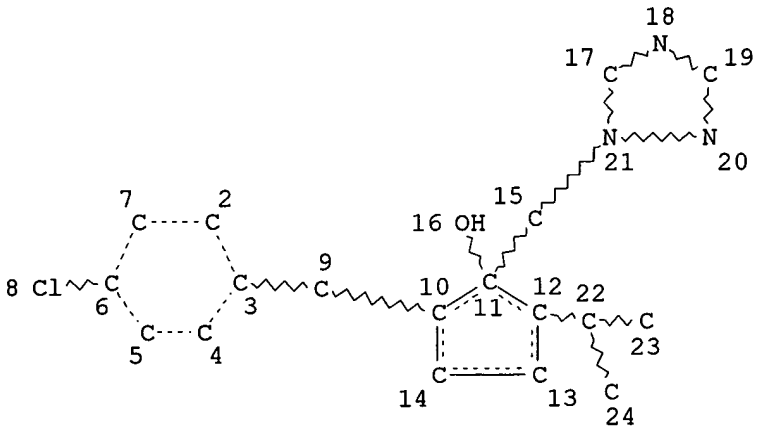
US 6958359 25 OCT 2005
DE 1020040544 27 OCT 2005
EP 1589024 26 OCT 2005
JP 2005320486 27 OCT 2005
WO 2005110983 24 NOV 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

FILE HOME

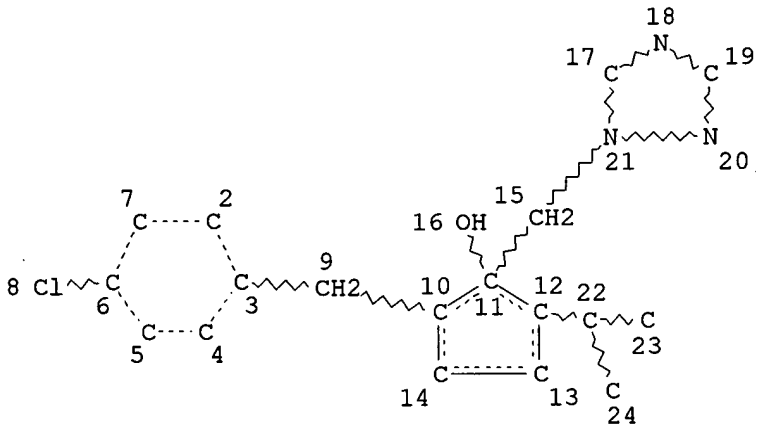
=> d que stat l6; d que stat l18; d his ful
L1 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
L2 (52)SEA FILE=REGISTRY SSS FUL L1
L3 STR



NODE ATTRIBUTES:
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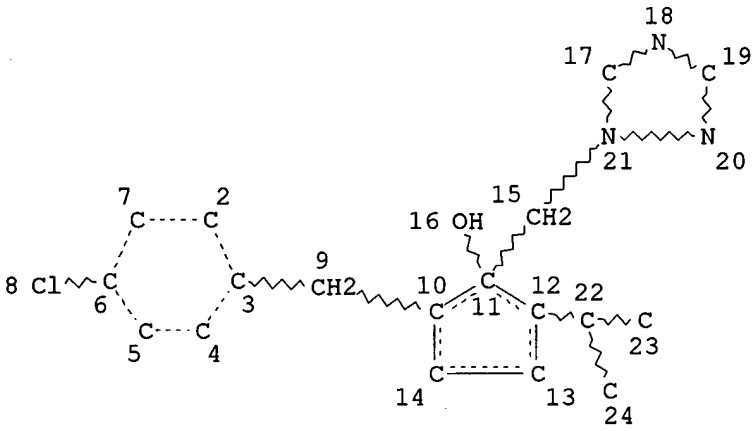
CONNECT IS X1 RC AT 24
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
L4 (44)SEA FILE=REGISTRY SUB=L2 SSS FUL L3

L5 STR



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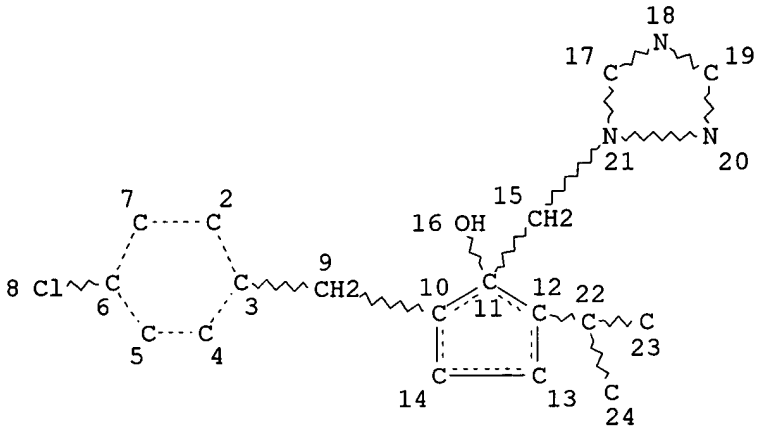
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
L6 44 SEA FILE=REGISTRY SUB=L4 SSS FUL L5

100.0% PROCESSED 44 ITERATIONS 44 ANSWERS
SEARCH TIME: 00.00.01

L5 STR



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CONNECT IS X2 RC AT 20
CONNECT IS X1 RC AT 23
CONNECT IS X1 RC AT 24
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

ATTRIBUTES SPECIFIED AT SEARCH-TIME:
ECLEVEL IS LIM ON ALL NODES
ALL RING(S) ARE ISOLATED

L18 4 SEA FILE=MARPAT SSS FUL L5 (MODIFIED ATTRIBUTES)

100.0% PROCESSED 3744 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.02

(FILE 'REGISTRY' ENTERED AT 12:02:40 ON 20 JAN 2006)
DEL HIS Y
ACT ARNOL/A

L1 STR
L2 (52) SEA SSS FUL L1
L3 STR
L4 (44) SEA SUB=L2 SSS FUL L3

Searcher : Shears 571-272-2528

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L5              STR
L6           44 SEA SUB=L4 SSS FUL L5
               ---------

     FILE 'CAPLUS' ENTERED AT 12:02:55 ON 20 JAN 2006
L7           99 SEA ABB=ON  PLU=ON  L6
L8           78 SEA ABB=ON  PLU=ON  L7 AND (FUNGICID? OR ANTIFUNG? OR
                ANTI(W)(FUNG? OR ALGA##) OR PESTICID? OR INSECTICID? OR
                ALGICID? OR ANTIALGA##)
L9           34 SEA ABB=ON  PLU=ON  L8 NOT (PY=>2003 OR PD=>20031017)

     FILE 'REGISTRY' ENTERED AT 12:04:24 ON 20 JAN 2006
                D QUE STAT L6

     FILE 'CAPLUS' ENTERED AT 12:04:24 ON 20 JAN 2006
                D L9 1-34 IBIB ABS HITSTR

     FILE 'CAOLD' ENTERED AT 12:04:37 ON 20 JAN 2006
L10           0 SEA ABB=ON  PLU=ON  L6

     FILE 'USPATFULL' ENTERED AT 12:05:06 ON 20 JAN 2006
L11          34 SEA ABB=ON  PLU=ON  L6
L12          33 SEA ABB=ON  PLU=ON  L11 AND (FUNGICID? OR ANTIFUNG? OR
                ANTI(W)(FUNG? OR ALGA##) OR PESTICID? OR INSECTICID? OR
                ALGICID? OR ANTIALGA##)
L13          18 SEA ABB=ON  PLU=ON  L12 NOT (PY=>2003 OR PD=>20031017)
                D 1-18 IBIB ABS

     FILE 'MEDLINE, BIOSIS, EMBASE, AGRICOLA, CABA, CROPU, CROPB' ENTERED
     AT 12:06:01 ON 20 JAN 2006

     FILE 'MEDLINE, BIOSIS, EMBASE' ENTERED AT 12:06:26 ON 20 JAN 2006
L14           8 SEA ABB=ON  PLU=ON  L6
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L16           8 SEA ABB=ON  PLU=ON  L15 AND (FUNGICID? OR ANTIFUNG? OR
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                ALGICID? OR ANTIALGA##)
                D 1-8 IBIB ABS

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L17           0 SEA SSS SAM L5 (MODIFIED ATTRIBUTES)
                D QUE STAT
L18           4 SEA SSS FUL L5 (MODIFIED ATTRIBUTES)
                D QUE STAT
                D 1-4 .BEVMAR1

     FILE 'HOME' ENTERED AT 12:08:17 ON 20 JAN 2006
                D QUE STAT L5
                D QUE STAT L18
                D QUE STAT L6
                D QUE STAT L18


     FILE CAPLUS

     Copyright of the articles to which records in this database refer is
     held by the publishers listed in the PUBLISHER (PB) field (available
     for records published or updated in Chemical Abstracts after December
     26, 1996), unless otherwise indicated in the original publications.
```

Searcher : Shears 571-272-2528

FILE COVERS 1907 - 20 Jan 2006 VOL 144 ISS 5
FILE LAST UPDATED: 19 Jan 2006 (20060119/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply They are available for your review at:

http://www.cas.org/infopolicy.html

FILE REGISTRY
Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 JAN 2006 HIGHEST RN 872163-75-2
DICTIONARY FILE UPDATES: 18 JAN 2006 HIGHEST RN 872163-75-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMI for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE CAOLD
FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

Searcher : Shears 571-272-2528

This file supports REGlstRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

FILE USPATFULL
FILE COVERS 1971 TO PATENT PUBLICATION DATE: 19 Jan 2006 (20060119/PD)
FILE LAST UPDATED: 19 Jan 2006 (20060119/ED)
HIGHEST GRANTED PATENT NUMBER: US6988280
HIGHEST APPLICATION PUBLICATION NUMBER: US2006015978
CA INDEXING IS CURRENT THROUGH 19 Jan 2006 (20060119/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 19 Jan 2006 (20060119/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

FILE MEDLINE
FILE LAST UPDATED: 19 JAN 2006 (20060119/UP). FILE COVERS 1950 TO DA

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 will soon be available. For details on the 2005 reload, enter HELP RLOAD at an arrow promt (=>). See also:

http://www.nlm.nih.gov/mesh/
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.ht
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate

FILE BIOSIS
FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 19 January 2006 (20060119/ED)

FILE EMBASE
FILE COVERS 1974 TO 19 Jan 2006 (20060119/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE AGRICOLA

FILE COVERS 1970 TO 6 Jan 2006 (20060106/ED)

Compiled and distributed by the National Agricultural Library
of the Department of Agriculture of the United States of

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This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE CABA
FILE COVERS 1973 TO 6 Jan 2006 (20060106/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

The CABA file was reloaded 7 December 2003. Enter HELP RLOAD for deta

FILE CROPU
FILE LAST UPDATED: 5 JAN 2004 <20040105/UP>
FILE COVERS 1985 TO 2003

>>> CROPU WILL NO LONGER BE UPDATED AS OF 2004 <<<

>>> EFFECTIVE JAN 1, 2004, THE 70% DISCOUNT FOR DERWENT CROP PROTECTION SUBSCRIBERS WILL BE NO LONGER VALID <<<

FILE CROPB
FILE LAST LOADED: 11 NOV 94 <941111/UP>
>>> EFFECTIVE JAN 1, 2004, THE 70% DISCOUNT FOR DERWENT CROP PROTECTION SUBSCRIBERS WILL BE NO LONGER VALID <<<

FILE MARPAT
FILE CONTENT: 1969-PRESENT (VOL 144 ISS 3 (20060116/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1969-1987

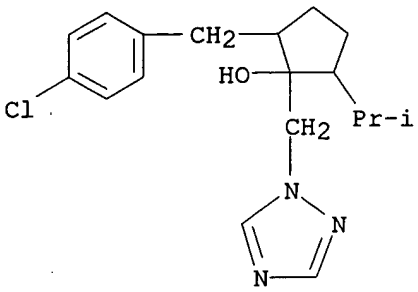
MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6958359 25 OCT 2005
DE 1020040544 27 OCT 2005
EP 1589024 26 OCT 2005
JP 2005320486 27 OCT 2005
WO 2005110983 24 NOV 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

FILE HOME



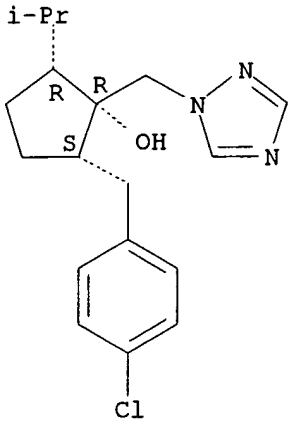
L9 ANSWER 20 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:963239 CAPLUS
DOCUMENT NUMBER: 124:23826
TITLE: QSARs and three-dimensional shape studies of **fungicidal** azolylmethylcyclopentanols. Molecular design of novel **fungicides** metconazole and ipconazole
AUTHOR(S): Chuman, Hiroshi; Ito, Atsushi; Saishoji, Toshihide; Kumazawa, Satoru
CORPORATE SOURCE: Intelligent Systems Development for Research Dep., Kureha Chemical Industry Company, Ltd., Tokyo, 169, Japan
SOURCE: ACS Symposium Series (1995), 606(Classical and Three-Dimensional QSAR in Agrochemistry), 171-85
CODEN: ACSMC8; ISSN: 0097-6156
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A series of azole compds. containing a cyclopentane ring were synthesized and tested for **fungicidal** activity. The Hansch-Fujita type QSAR and three-dimensional shape comparison analyses were employed to optimize the structure of a lead compound logically for the higher **fungicidal** activity, resulting in the discovery of metconazole and ipconazole, promising **fungicides** of novel structure. A possible mode of interaction between metconazole and its target receptor, cytochrome P 45014DM was proposed.

IT **115850-69-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(QSARs and three-dimensional shape and preparation studies of **fungicidal** azolylmethylcyclopentanolse)

RN 115850-69-6 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2α,5α)- (9CI) (CA INDEX NAME)

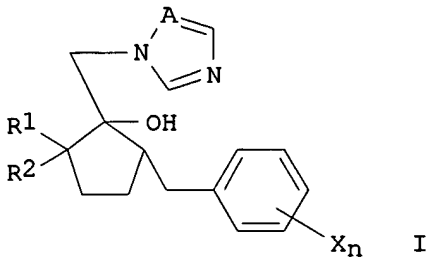
Relative stereochemistry.



L9 ANSWER 21 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:686878 CAPLUS
DOCUMENT NUMBER: 123:83372
TITLE: Process for separating isomers of azolylmethylcyclopentanol derivatives.
INVENTOR(S): Hayashi, Shoichiro; Sunagawa, Kazuhiko; Kumazawa, Satoru
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo K. K., Japan
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 648751	A1	19950419	EP 1994-307489		19941012
R: CH, DE, FR, GB, LI					
JP 07112973	A2	19950502	JP 1993-280103		19931013
US 5446167	A	19950829	US 1994-321093		19941011
PRIORITY APPLN. INFO.:			JP 1993-280103	A	19931013

OTHER SOURCE(S): MARPAT 123:83372
GI



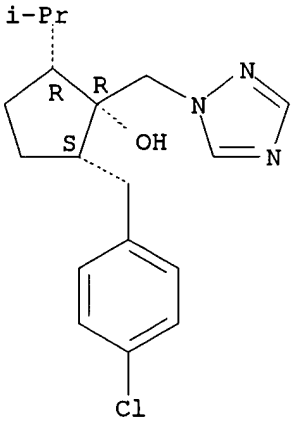
I

AB The trans isomer is removed from a mixture of the cis isomer and the

trans isomer of an azolylmethylcyclopentanol derivative (I; R1, R2 = H, alkyl; n = 0-5; X = halo, alkyl, haloalkyl, Ph, cyano, nitro; A = N, CH) by dehydrating selectively the trans isomer in the presence of an acid, and isolating the cis isomer. Thus, a mixture of 81.0 weight% cis- and 19.0 weight% trans-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol was subjected to azeotropic dehydration with PhMe/H2SO4 for 5 h to give, after recrystn. from methylcyclohexane, 98.3 weight% pure cis-isomer. A process for formulating the cis isomer in a **fungicidal** composition is claimed.

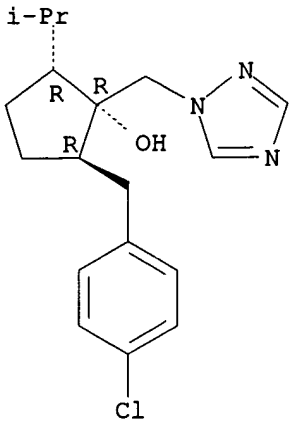
IT **115850-69-6P**
RL: PUR (Purification or recovery); PREP (Preparation)
(process for separating isomers of azolylmethylcyclopentanol derivs.)
RN 115850-69-6 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2α,5α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



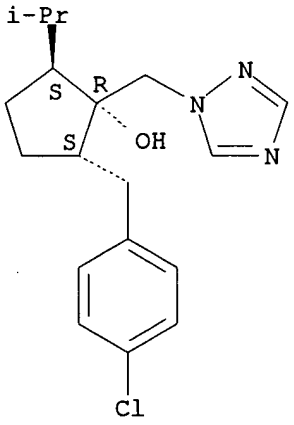
IT **115937-88-7 115937-89-8 115937-91-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(process for separating isomers of azolylmethylcyclopentanol derivs.)
RN 115937-88-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2β,5α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



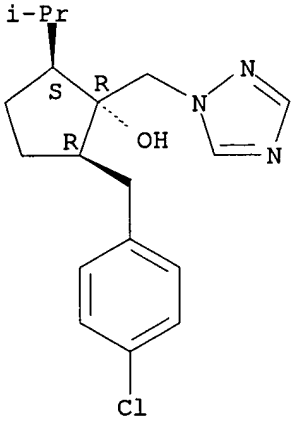
RN 115937-89-8 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2α,5β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 115937-91-2 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2β,5β)- (9CI) (CA INDEX NAME)

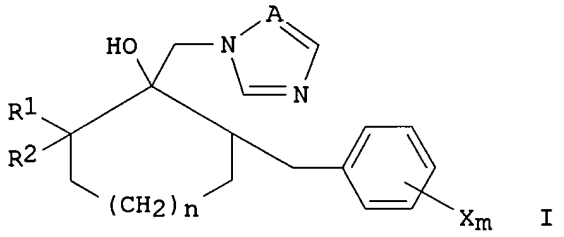
Relative stereochemistry.



L9 ANSWER 22 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:667320 CAPLUS
DOCUMENT NUMBER: 123:83374
TITLE: Process for the preparation of azolylmethylcycloalkanol derivatives
INVENTOR(S): Yoshida, Eyji; Kusano, Nobuyuki; Kumazawa, Satoru
PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 655443	A2	19950531	EP 1994-117760	19941110
EP 655443	A3	19950628		
R: DE, FR, GB				
JP 07138234	A2	19950530	JP 1993-305816	19931111
US 5466816	A	19951114	US 1994-337275	19941110
PRIORITY APPLN. INFO.:			JP 1993-305816 A	19931111

OTHER SOURCE(S): CASREACT 123:83374; MARPAT 123:83374
GI



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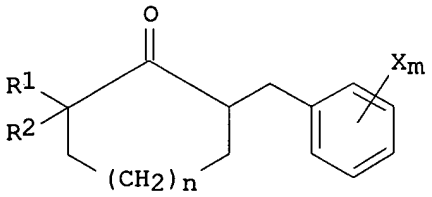
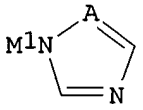


II



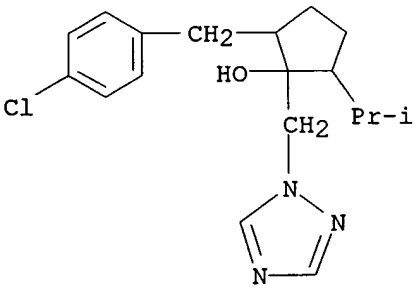
III

AB Azolylmethylcycloalkanols (I; A = N, CH; R1, R2 = H, alkyl; X = halogen, alkyl, haloalkyl, Ph, CN, NO2; m = 0-5; n = 0-2) [e.g., 5-(4-chlorobenzyl)-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol; m.p. 113-115°], useful as **fungicides** (no data), are prepared by reacting a cycloalkanone (II) [e.g., 5-(4-chlorobenzyl)-2,2-dimethylcyclopentanone], an azole (III; M1 = alkali metal, alkaline earth metal) (e.g., a reaction mixture of 1H-1,2,4-triazole and NaOH), a metal oxide M2O (M2 = alkali metal, Zn, alkaline earth metal) [e.g., Ba(OH)2], and an organic solvent (e.g., DMF, etc.), and then adding a sulfonium compound Me3S+(O)pY- (Y = halogen, alkoxysulfonyloxy; p = 0, 1) (e.g., trimethylsulfoxonium bromide) to the solid-liquid, two-phase mixture under heating while stirring.

IT **125225-28-7P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(process for the preparation of azolylmethylcycloalkanol derivs.)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:246844 CAPLUS
DOCUMENT NUMBER: 122:99237
TITLE: Metabolism of ipconazole, a new triazole **fungicide** for seed treatment, in rice plants

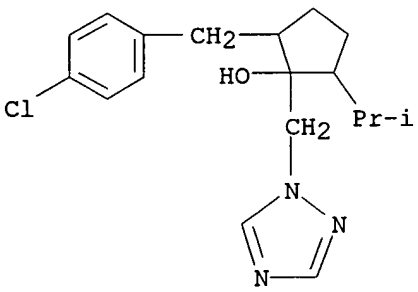
Searcher : Shears 571-272-2528

AUTHOR(S): Eizuka, Takayoshi; Saitoh, Kouki; Chida, Tsuneaki; Satake, Keigo; Yamaguchi, Isamu
CORPORATE SOURCE: Nishiki Res. Lab., Kureha Chem. Ind. Co., Ltd., Iwaki, 974, Japan
SOURCE: Nippon Noyaku Gakkaishi (1994), 19(4), 285-97
CODEN: NNGADV; ISSN: 0385-1559
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The metabolism of ipconazole in rice seedlings and mature plants after seed treatment was investigated. Seeds were treated with 2 different types of 14C-labeled ipconazole, [T-14C]-ipconazole labeled at the triazole ring and [B-14C]-ipconazole labeled at the benzylmethylene position. After 22 days of seeding, 40-41% of the applied radioactivity was recovered from soil, 27% from roots and seeds, and only 0.36-0.42% from rice shoots. The main metabolites of ipconazole in rice seedlings after seed treatment or root application were oxidative products at the carbons of the iso-Pr group (Me and methine) and the benzylmethylene, although trace amts. of conjugated metabolites were observed Seedlings from seeds treated with 14C-ipconazole were cultivated for 144 days in Wagner pots, and radioactive residues in harvested grains were analyzed. Residues in hulled rice from the plants treated with [T-14C]-ipconazole and [B-14C]-ipconazole were 2.5 and 0.2 μg eq./kg, resp. Ipconazole and its metabolites detected in seedlings were not found in hulled rice, and most of the radioactivity derived from [T-14C]-ipconazole was detected in the unextractable residue and water soluble fraction from hulled rice.

IT **125225-28-7**, Ipconazole
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(translocation and metabolism of ipconazole in rice plant after seed treatment and root application)

RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



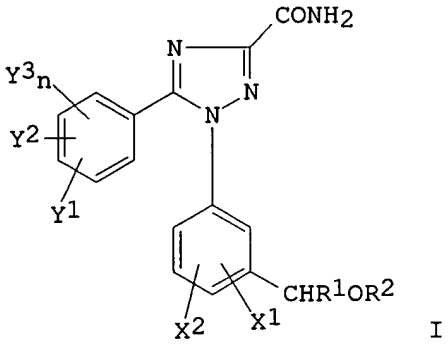
L9 ANSWER 24 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:501981 CAPLUS
DOCUMENT NUMBER: 121:101981
TITLE: Synergistic **fungicide** composition for agriculture and horticulture.
INVENTOR(S): Tateishi, Hideaki; Watanabe, Takeo; Saishoji, Toshihide
PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 27 pp.

CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 603845	A1	19940629	EP 1993-120661	19931222
EP 603845	B1	19951102		
R: DE, FR, GB				
JP 06192012	A2	19940712	JP 1992-358928	19921225

PRIORITY APPLN. INFO.: JP 1992-358928 A 19921225

OTHER SOURCE(S): MARPAT 121:101981
GI



I

AB The title compns. comprise a 1,5-diphenyl-1H-1,2,4-triazole-3-carboxamide derivative I [R1= (cyclo)alkyl, fluoroalkyl,(alkoxy)methyl, Ph; R2= (cyclo)alkyl, (cyclo)alkylmethyl, fluoroalkyl; X1=H, alkyl, alkoxy, halo; X2, Y1, Y2= H, alkyl, halo; Y3=H, halo; n=1,2] and an ergosterol biosynthesis-inhibiting, carboximide, benzimidazole and/or carbamate **fungicide**. A mixture of I(R1=iso-Pr,R2=Bu,X1=6-Me,X2=Y3n=H,Y1=2-F,Y2=3-F) and iprodione (25 ppm each) totally and synergistically controlled Botrytis cinerea on cucumber.

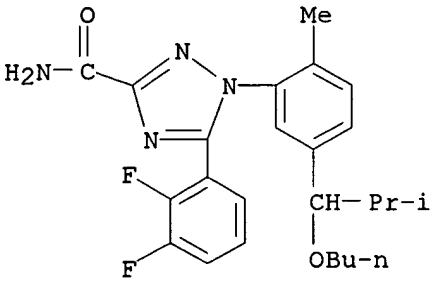
IT **156910-96-2 156911-00-1 156911-05-6**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(**fungicide**, synergistic)

RN 156910-96-2 CAPLUS

CN 1H-1,2,4-Triazole-3-carboxamide, 1-[5-(1-butoxy-2-methylpropyl)-2-methylphenyl]-5-(2,3-difluorophenyl)-, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

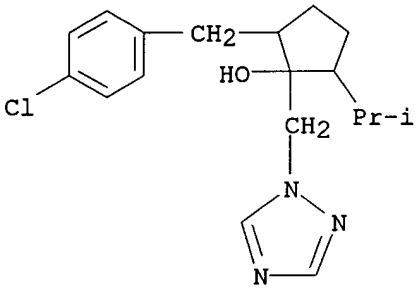
CM 1

CRN 152856-69-4
CMF C24 H28 F2 N4 O2



CM 2

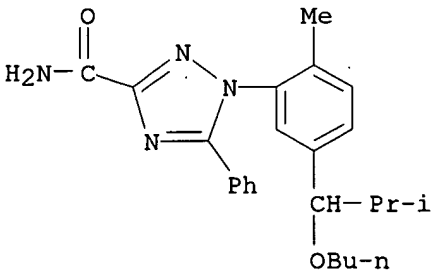
CRN 125225-28-7
CMF C18 H24 Cl N3 O



RN 156911-00-1 CAPLUS
CN 1H-1,2,4-Triazole-3-carboxamide, 1-[5-(1-butoxy-2-methylpropyl)-2-methylphenyl]-5-phenyl-, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

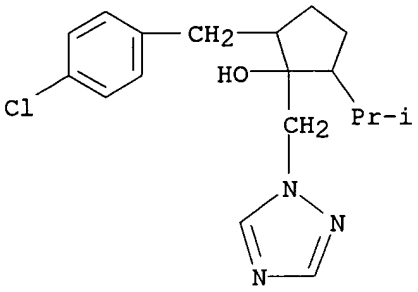
CM 1

CRN 152856-82-1
CMF C24 H30 N4 O2



CM 2

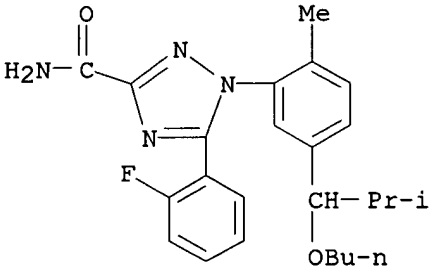
CRN 125225-28-7
CMF C18 H24 Cl N3 O



RN 156911-05-6 CAPLUS
CN 1H-1,2,4-Triazole-3-carboxamide, 1-[5-(1-butoxy-2-methylpropyl)-2-methylphenyl]-5-(2-fluorophenyl)-, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

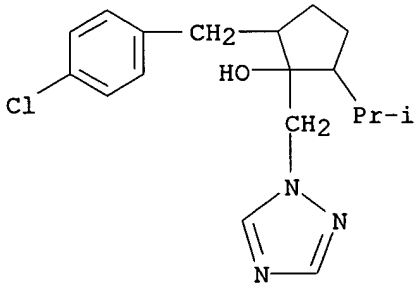
CM 1

CRN 152856-68-3
CMF C24 H29 F N4 O2

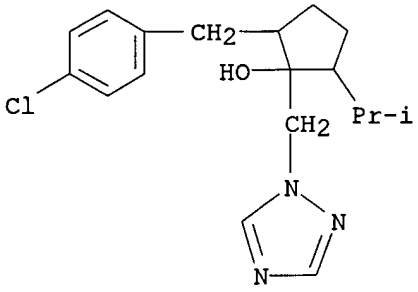


CM 2

CRN 125225-28-7
CMF C18 H24 Cl N3 O



IT **125225-28-7D**, Ipconazole, mixts. with triazolecarboxamide derivs.
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(**fungicides**, synergistic)
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)

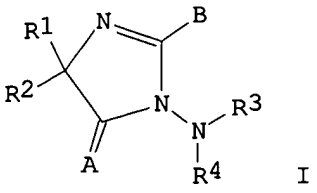


L9 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:270387 CAPLUS
DOCUMENT NUMBER: 120:270387
TITLE: Agrochemical **fungicidal** imidazolinones
INVENTOR(S): Sun, King Mo
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 149 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9324467	A1	19931209	WO 1993-US4396	19930514
W: BR, PL, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 642502	A1	19950315	EP 1993-911196	19930514
EP 642502	B1	20000712		
R: DE, ES, FR, GB, IT, PT				
EP 1008589	A1	20000614	EP 2000-106172	19930514
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
ES 2149815	T3	20001116	ES 1993-911196	19930514
PT 642502	T	20001229	PT 1993-911196	19930514

PRIORITY APPLN. INFO.: US 1992-887528 A2 19920522
EP 1993-911196 A3 19930514
WO 1993-US4396 W 19930514

OTHER SOURCE(S): MARPAT 120:270387
GI



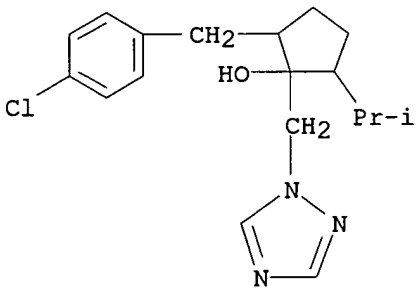
I

AB The title compds. [I; A = O, S, (un)substituted NH; B = H, halogen, CN, NC, S:C:N, O:C:N, NO2, etc.; R1 = C1-4 alkyl, C1-4 haloalkyl, C3-6 cycloalkyl, C2-4 alkenyl, C2-4 alkoxycarbonyl, (un)substituted PhCH2; R2 = (un)substituted C1-20 alkyl, (un)substituted C2-20 alkoxyalkyl, (un)substituted C2-20 alkenyl, (un)substituted alkynyl, (un)substituted pH, 2-naphthalenyl, thienyl, etc.; R3 = (un)substituted Ph, (un)substituted pyridyl, (un)substituted pyrimidinyl; PhCH2; R4 = H, Me], useful as agrochem. **fungicides** for the treatment of crop plants, are prepared Thus, 5-methyl-5-phenyl-3-(phenylimino)-2-thioxo-4-imidazolidinone was methylated with MeI, producing I (A = O, B = MeS, R1 = Me, R2 = R3 = Ph, R4 = H) (II), m.p. 132-134°. II demonstrated complete control of wheat powdery mildew on wheat seedlings at 100 ppm.

IT **125225-28-7**, Ipconazole
RL: RCT (Reactant); RACT (Reactant or reagent)
(**fungicidal** formulations containing)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)

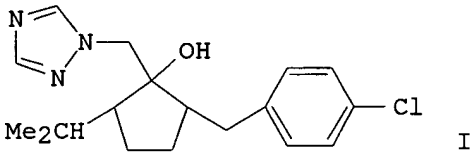


L9 ANSWER 26 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:210808 CAPLUS
DOCUMENT NUMBER: 120:210808
TITLE: Synergistic agrochemical microbicides containing triazole derivative and fthalide.
INVENTOR(S): Nagatsuka, Takayoshi; Senda, Tsuneaki; Shinkawa, Hiroe; Suzuki, Toji
PATENT ASSIGNEE(S): Kureha Chemical Ind Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06009311	A2	19940118	JP 1992-191377	19920626
PRIORITY APPLN. INFO.:			JP 1992-191377	19920626

GI



I

AB Synergistic agrochem. microbicides, useful for controlling Pyricularia oryzae, contain triazole derivative I and fthalide as active ingredients. I and fthalide, at 25.0 and 26.7 g/10 are, resp., showed 75% control of P. oryzae, vs. less activity, for I or fthalide alone. I 20, fthalide 20, polyoxyethylene nonylphenyl ether 0.5, xanthan gum 0.5, Demol EP 1.5, ethylene glycol 8, and H2O 49.5 parts were mixed to give a suspension.

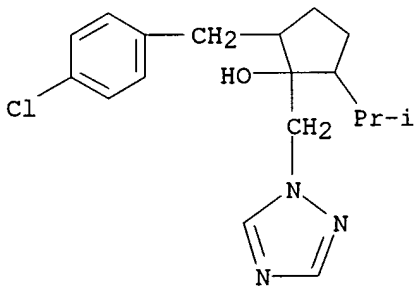
IT **154033-06-4**
RL: BIOL (Biological study)
(agrochem. **fungicide** containing, synergistic, for Pyricularia oryzae control)

RN 154033-06-4 CAPLUS

CN 1(3H)-Isobenzofuranone, 4,5,6,7-tetrachloro-, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

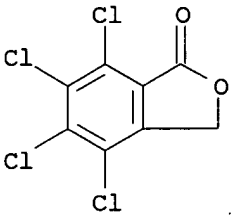
CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O



CM 2

CRN 27355-22-2
CMF C8 H2 Cl4 O2



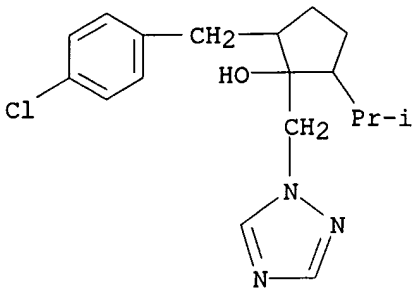
L9 ANSWER 27 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:2795 CAPLUS
DOCUMENT NUMBER: 120:2795
TITLE: Microbicides containing ipconazole and carbonates for rice seeds.
INVENTOR(S): Maeno, Shinichiro; Hayashi, Shigeru
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05221812	A2	19930831	JP 1992-60914	19920218
JP 3222530	B2	20011029		
PRIORITY APPLN. INFO.:			JP 1992-60914	19920218

AB Agrochem. microbicides for rice seeds, contain ipconazole (I) and carbonates chosen from CaCO3, basic MgCO3, (NH4)2CO3, NH4HCO3, and KHCO3 as active ingredients. The agents prevent rice bakanae, blast, brown spot, and seedling blight induced by filamentous fungi, and rice seedling rot induced by bacteria, such as Pseudomonas glumae, P. plantarii, and P. avenae. A wettable powder was formulated containing I 6, CaCO3 15, kieselguhr 74, Na dinaphthylmethanedisulfonate 2, and Na ligninsulfonate 3%. A mixture of I at 300 ppm and CaCO3 at 750 ppm, applied to the seed, totally prevented rice seedling rot, vs. 4% and 86% for I at 300 ppm and for CaCO3 at 750 ppm, resp.

IT **125225-28-7D**, Ipconazole, mixts. with carbonates
151541-53-6 151541-54-7 151541-55-8
151541-56-9
RL: BIOL (Biological study)
(microbicides containing, for rice seeds)

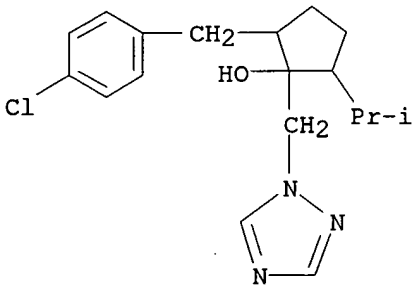
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



RN 151541-53-6 CAPLUS
CN Carbonic acid calcium salt (1:1), mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

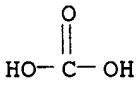
CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O



CM 2

CRN 471-34-1
CMF C H2 O3 . Ca

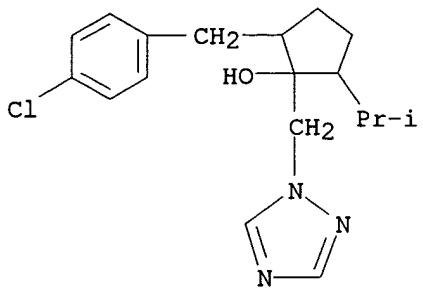


● Ca

RN 151541-54-7 CAPLUS
CN Carbonic acid, magnesium salt (1:1), mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

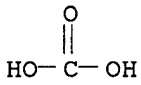
CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O



CM 2

CRN 546-93-0
CMF C H2 O3 . Mg

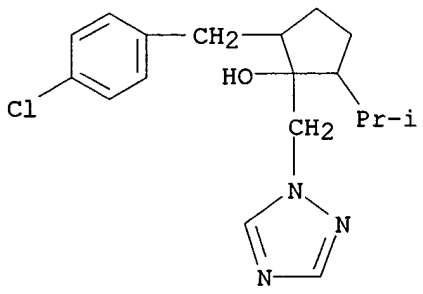


● Mg

RN 151541-55-8 CAPLUS
CN Carbonic acid, diammonium salt, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

CM 1

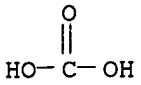
CRN 125225-28-7
CMF C18 H24 Cl N3 O



CM 2

CRN 506-87-6

CMF C H2 O3 . 2 H3 N

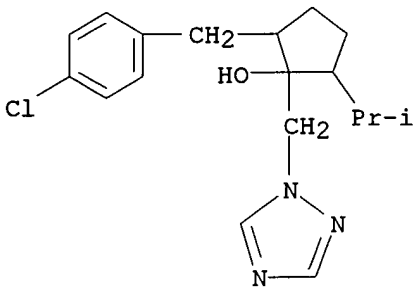


● 2 NH_3

RN 151541-56-9 CAPLUS
CN Carbonic acid, monopotassium salt, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

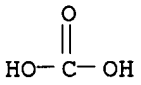
CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O



CM 2

CRN 298-14-6
CMF C H2 O3 . K



● K

L9 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:533440 CAPLUS
DOCUMENT NUMBER: 119:133440
TITLE: Seed disinfectants.
INVENTOR(S): Tateishi, Hideaki; Senda, Tsuneaki
PATENT ASSIGNEE(S): Kureha Chemical Ind Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

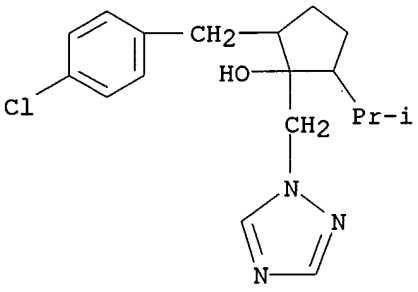
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05155718	A2	19930622	JP 1991-349453	19911209
PRIORITY APPLN. INFO.:			JP 1991-349453	19911209

AB The title disinfectants contain compds. such as flumequine, norfloxacin and 2-(4-chlorobenzyl)-5-isopropyl-1-(1,2,4-triazol-1-ylmethyl)-1-cyclopentanol, as active ingredients. The disinfectants showed a broad spectrum of antimicrobial activity.

IT **125225-28-7**
RL: BIOL (Biological study)
(seed disinfectant)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:488912 CAPLUS
DOCUMENT NUMBER: 119:88912
TITLE: Synergistic seed disinfectants containing a triazole and 2-bromo-2-nitropropane-1,3-diol.
INVENTOR(S): Tateishi, Hideaki; Yamazaki, Shiro; Senda, Tsuneaki
PATENT ASSIGNEE(S): Kureha Chemical Ind Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05105605	A2	19930427	JP 1991-291969	19911014
PRIORITY APPLN. INFO.:			JP 1991-291969	19911014

AB Synergistic seed disinfectants contain 2-(4-chlorobenzyl)-5-isopropyl-1-(1H-1,2,4-triazol-1-ylmethyl)-1-cyclopentanol (I) and 2-bromo-2-nitropropane-1,3-diol (II) as active ingredients. Rice

seeds, infected with Pseudomonas glumae, were treated with 300 ppm I and 500 ppm II to show 0.0% disease incidence, vs. 32.3% and 9.6%, for controls treated with I and II themselves, resp. Formulation examples are also given.

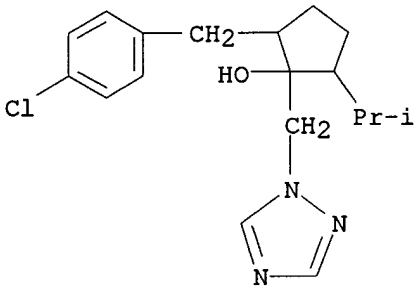
IT **149202-34-6**
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(seed disinfectant, synergistic)

RN 149202-34-6 CAPLUS

CN 1,3-Propanediol, 2-bromo-2-nitro-, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

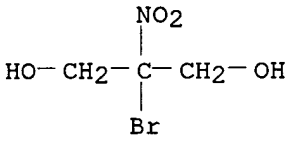
CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O



CM 2

CRN 52-51-7
CMF C3 H6 Br N O4



L9 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	1993:96263 CAPLUS
DOCUMENT NUMBER:	118:96263
TITLE:	Synergistic seed disinfectants containing a triazole derivative and copper compounds.
INVENTOR(S):	Senda, Tsuneaki; Tateishi, Hideaki
PATENT ASSIGNEE(S):	Kureha Chemical Industry Co., Ltd., Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 6 pp. CODEN: JKXXAF
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04264011	A2	19920918	JP 1991-43962	19910218
JP 06099257	B4	19941207		
PRIORITY APPLN. INFO.:			JP 1991-43962	19910218

AB A wide-spectrum and synergistic seed disinfectant contains 2-(4-chlorobenzyl)-5-isopropyl-1-(1H-1,2,4-triazol-1-ylmethyl)-1-cyclopentanol (I) and Cu compds. Pseudomonas glumae-infected rice seeds were treated with a suspension containing 200 ppm I and 120 ppm Cu sulfate to show synergistic control of the infection.

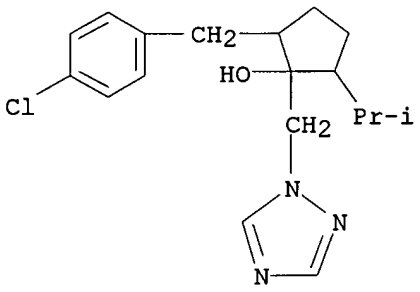
IT **146106-16-3 146106-17-4 146106-18-5**
146106-19-6
RL: BIOL (Biological study)
(seed disinfectant, synergistic)

RN 146106-16-3 CAPLUS

CN Sulfuric acid copper(2+) salt (1:1), mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

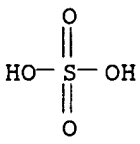
CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O



CM 2

CRN 7758-98-7
CMF Cu . H2 O4 S



● Cu(II)

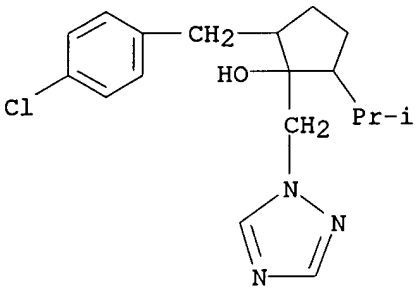
RN 146106-17-4 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, mixt. with copper hydroxide (Cu(OH)2)

(9CI) (CA INDEX NAME)

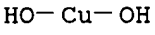
CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O



CM 2

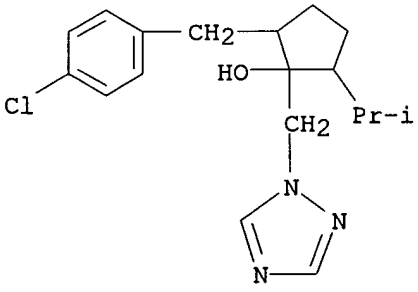
CRN 20427-59-2
CMF Cu H2 O2



RN 146106-18-5 CAPLUS
CN Sulfuric acid, copper salt, basic, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O



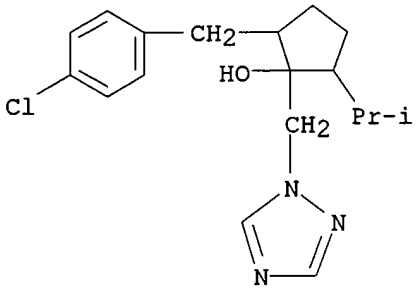
CM 2

CRN 1344-73-6
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 146106-19-6 CAPLUS
CN Copper, bis(8-quinolinolato-N1,O8)-, mixt. with 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

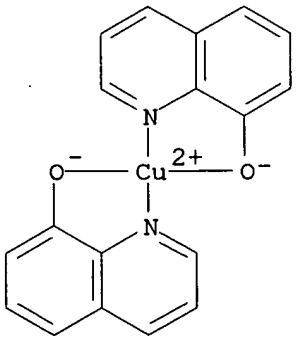
CM 1

CRN 125225-28-7
CMF C18 H24 Cl N3 O

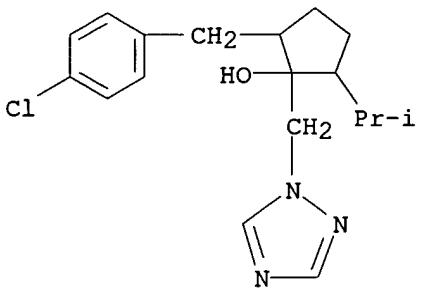


CM 2

CRN 10380-28-6
CMF C18 H12 Cu N2 O2
CCI CCS



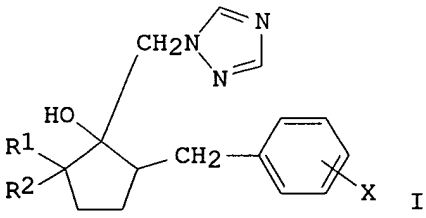
IT **125225-28-7D**, mixts. with copper compds.
RL: BIOL (Biological study)
(seed disinfectants, synergistic)
RN 125225-28-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 31 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:550991 CAPLUS
DOCUMENT NUMBER: 117:150991
TITLE: Preparation of optically active triazole derivatives as agricultural and horticultural **fungicides**
INVENTOR(S): Saishoji, Toshihide; Ito, Atsushi; Kumazawa, Satoru
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo K. K., Japan
SOURCE: Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 488395	A1	19920603	EP 1991-120579		19911129
R: BE, DE, FR, GB, NL					
JP 04202188	A2	19920722	JP 1990-329644		19901130
PRIORITY APPLN. INFO.:			JP 1990-329644	A	19901130

OTHER SOURCE(S): MARPAT 117:150991
GI



I

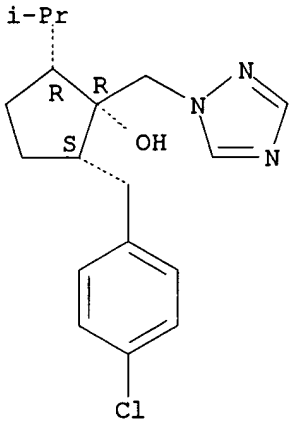
AB Title compds. I (wherein one of R1 and R2 = C3-4 alkyl and the other = H, and R1 and the (substituted) PhCH2 are bonded to the cis position of the HO group and R2 is bonded to the trans position of the HO group; X = H, halo) are prepared (±)-(3α,4α,7α)-4-[(4-Chlorophenyl)methyl]-7-(1-methylethyl)-1-oxospiro[2.4]heptane in THF was treated with 1,2,4-triazole at room temperature to give after workup (±)-(1α,2α,5α)-I (R1 = Me2CH, R2 = H, X = 4-Cl)

(II) which was separated by chromatog. into (-)-(II). II at 3 ppm gave 99.8% control of Puccinia recondita and Erysiphe graminis tritici on wheat.

IT **115850-69-6P 115937-89-8P 127307-54-4P 127307-68-0P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agrochem. **fungicide**)

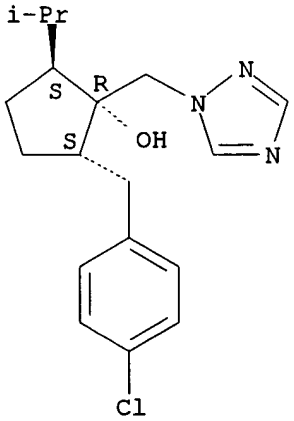
RN 115850-69-6 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2α,5α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 115937-89-8 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2α,5β)- (9CI) (CA INDEX NAME)

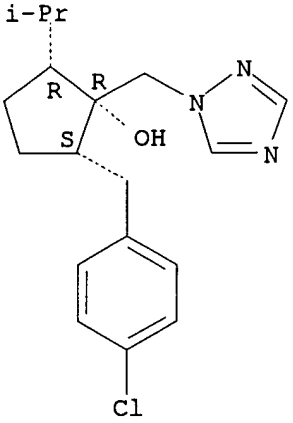
Relative stereochemistry.



RN 127307-54-4 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-

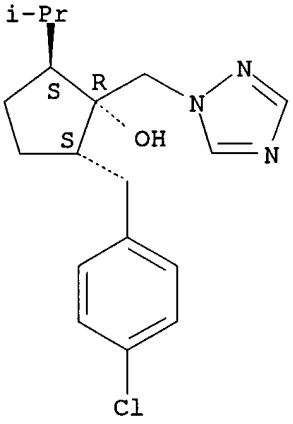
1,2,4-triazol-1-ylmethyl)-, [1R-(1α,2α,5α)]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 127307-68-0 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, [1R-(1α,2α,5β)]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



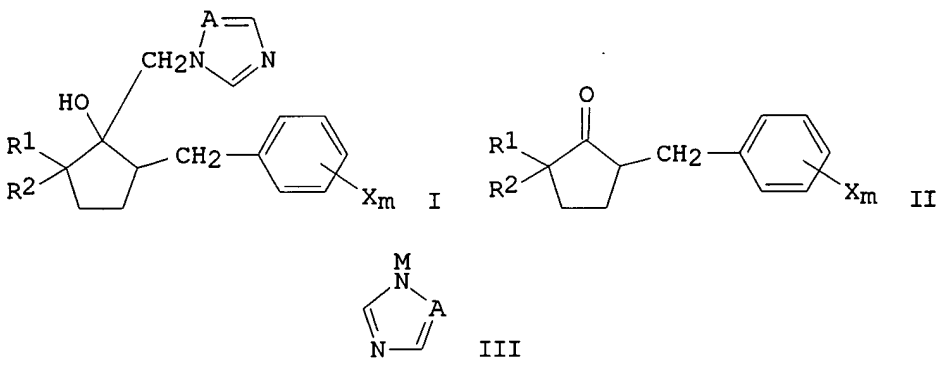
L9 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:77197 CAPLUS
DOCUMENT NUMBER: 112:77197
TITLE: Process for producing azolylmethylcyclopentanol derivatives as agrochemical **fungicides**
INVENTOR(S): Sunagawa, Kazuhiko; Hoshi, Hajime
PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 329397	A1	19890823	EP 1989-301420	19890215
EP 329397	B1	19931027		
R: BE, DE, FR, GB, NL				
JP 01301664	A2	19891205	JP 1988-231338	19880914
JP 07062001	B4	19950705		
PRIORITY APPLN. INFO.:			JP 1988-33773 A	19880216
			JP 1988-231338 A	19880914

OTHER SOURCE(S): MARPAT 112:77197

GI



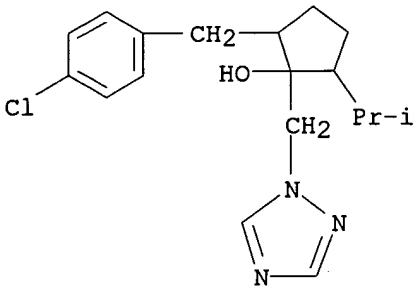
I II III

AB Imidazole or triazole derivs. (I; A = CH, N; R1 = H, C1-5 alkyl; R2 = H, Me, Et; X = halo, C1-4 alkyl, Ph, CF3, NO2, cyano; m = 1-5), useful as agricultural or horticultural **fungicides** (no data), are prepared by reaction of II with azole III (M = H, alkali metal) and a sulfonium methylide or sulfoxonium methylide in the presence of a base. N-Methyl-2-pyrrolidone was added to NaH with stirring, followed by Me3S+O Br- and 1,2,4-triazole, the mixture stirred, tert-amyl alc. and II (R1 = R2 = Me, Xm = 4-Cl) were added, and the mixture heated at 100° to give 54.7% I (A = N; R1 = R2 = Me, Xm = 4-Cl). Addnl. 6 I were also prepared

IT **125225-28-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agrochem. **fungicide**)

RN 125225-28-7 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



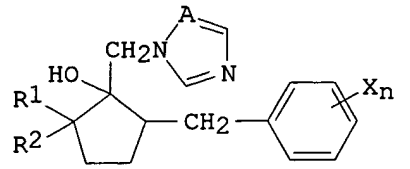
L9 ANSWER 33 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:231639 CAPLUS
DOCUMENT NUMBER: 110:231639
TITLE: Preparation of azolylmethyl(benzyl)cyclopentanols as mycocides
INVENTOR(S): Arahira, Masato; Saishoji, Toshihide; Ikeda, Susumu; Kumazawa, Satoru
PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 80 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 294222	A2	19881207	EP 1988-305090	19880603
EP 294222	A3	19890208		
EP 294222	B1	19930203		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 01079117	A2	19890324	JP 1987-317754	19871216
JP 06096530	B4	19941130		
AU 8816957	A1	19881208	AU 1988-16957	19880601
AU 593445	B2	19900208		
AT 85330	E	19930215	AT 1988-305090	19880603
ES 2053734	T3	19940801	ES 1988-305090	19880603
CA 1337988	A1	19960123	CA 1988-568677	19880603
US 5162356	A	19921110	US 1991-666488	19910306
US 5240955	A	19930831	US 1992-928954	19920813

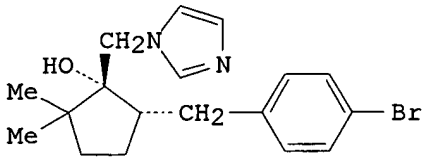
PRIORITY APPLN. INFO.:

JP 1987-141144	A	19870605
JP 1987-317754	A	19871216
EP 1988-305090	A	19880603
US 1988-201982	B1	19880603
US 1991-666488	A3	19910306

OTHER SOURCE(S): MARPAT 110:231639
GI



I



II

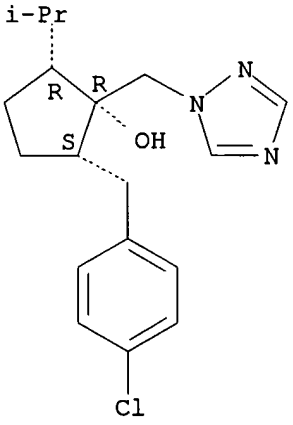
AB The title compds. (I; A = N, CH; 1 of R1, R2 = C1-5 alkyl and the other = H, C1-5 alkyl; X = halo, alkyl, haloalkyl, Ph, cyano, NO2; n = 1-5) were prepared Title compound II had min. inhibitory concentration of <3.13 ppm against 8 of 8 fungi tested in vitro.

IT **115850-69-6P 115937-88-7P 115937-89-8P 115937-91-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as mycocide)

RN 115850-69-6 CAPLUS

CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2α,5α)- (9CI) (CA INDEX NAME)

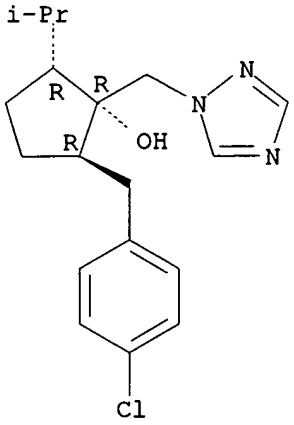
Relative stereochemistry.



RN 115937-88-7 CAPLUS

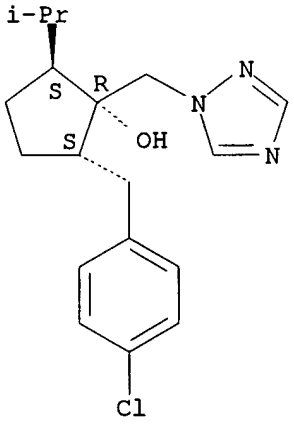
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2β,5α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



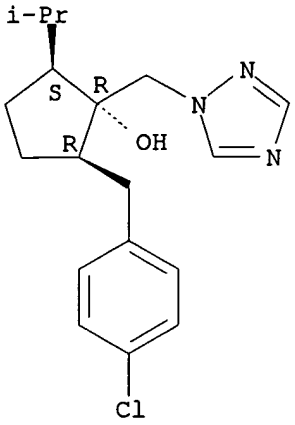
RN 115937-89-8 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2α,5β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 115937-91-2 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2β,5β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

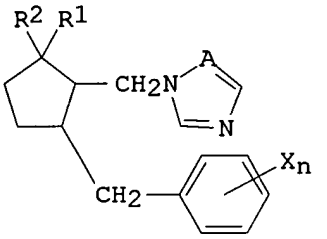


L9 ANSWER 34 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:493024 CAPLUS
DOCUMENT NUMBER: 109:93024
TITLE: Preparation of (azolylmethyl)cyclopentanols useful in controlling plant diseases and regulating plant growth
INVENTOR(S): Kumazawa, Satoru; Shimizu, Susumu; Enari, Hiroyuki; Ito, Atsushi; Ikeda, Susumu; Sato, Nobuo; Saishoji, Toshihide
PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 146 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 267778	A2	19880518	EP 1987-309925	19871110
EP 267778	A3	19890419		
EP 267778	B1	19930324		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 01093574	A2	19890412	JP 1987-271277	19871027
JP 06025140	B4	19940406		
US 4938792	A	19900703	US 1987-115084	19871030
ZA 8708260	A	19890927	ZA 1987-8260	19871103
CA 1331006	A1	19940726	CA 1987-551296	19871106
DK 8705886	A	19880511	DK 1987-5886	19871110
DK 171542	B1	19961230		
AU 8780961	A1	19880519	AU 1987-80961	19871110
AU 584530	B2	19890525		
BR 8706104	A	19880614	BR 1987-6104	19871110
AT 87309	E	19930415	AT 1987-309925	19871110
ES 2053564	T3	19940801	ES 1987-309925	19871110
IL 85428	A1	19921201	IL 1988-85428	19880215
CS 274740	B2	19911015	CS 1988-1033	19880218
CN 1030232	A	19890111	CN 1988-101050	19880227
CN 1020606	B	19930512		
DD 289523	A5	19910502	DD 1988-313525	19880309

SU 1837767	A3	19930830	SU 1988-4355807		19880309
HU 47254	A2	19890228	HU 1988-604		19880604
HU 206023	B	19920828			
US 5028254	A	19910702	US 1990-514170		19900424
US 5159118	A	19921027	US 1991-691406		19910425
CN 1059825	A	19920401	CN 1991-109197		19910926
CN 1044659	B	19990818			
JP 05065243	A2	19930319	JP 1992-40111		19920130
JP 06104643	B4	19941221			
US 5239089	A	19930824	US 1992-910450		19920708
RU 2047605	C1	19951110	RU 1992-5052494		19920812
US 5414105	A	19950509	US 1993-61526		19930517
LV 10436	B	19960820	LV 1993-766		19930629
LV 10744	B	19951220	LV 1993-926		19930630
JP 06263693	A2	19940920	JP 1993-251185		19930913
JP 07047565	B4	19950524			
JP 06279424	A2	19941004	JP 1993-251183		19930913
JP 07108905	B4	19951122			
LT 4014	B	19960826	LT 1994-1864		19940131
PRIORITY APPLN. INFO.:			JP 1986-265559	A	19861110
			JP 1987-161126	A	19870630
			JP 1987-271277	A	19871027
			JP 1987-271227	A	19871027
			US 1987-115084	A3	19871030
			EP 1987-309925	A	19871110
			CN 1988-101050	A	19880227
			US 1990-514170	A3	19900424
			US 1991-691406	A3	19910425
			US 1992-910450	A3	19920708

OTHER SOURCE(S): MARPAT 109:93024
GI



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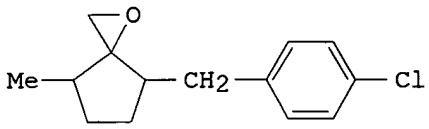

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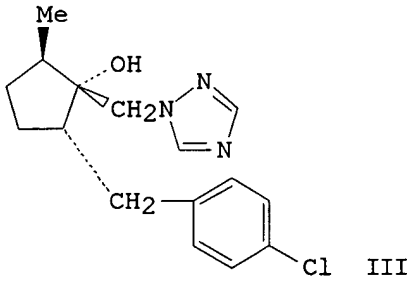


III

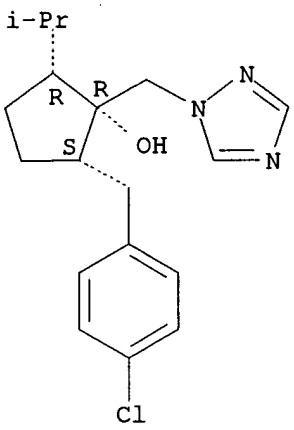
AB The title compds. (I; A = CH, N; R1, R2 = H, C1-5 alkyl; when R2 = H, R1 ≠ H; X = C1-5 alkyl, Ph, halo; n = 0-2) and their acid salts and metal complexes were prepared as plant growth regulators and agrochem. **fungicides**. Me 3-methyl-2-oxocyclopentanecarboxylate in C6H6 was treated with NaH and refluxed with 4-ClC6H4CH2Cl and the product was decarboxylated by heating with 47% aqueous HBr to give 2-(p-chlorobenzyl)-5-methylcyclopentanone. The latter was treated with NaH and Me3S+(O) I- in Me2SO to give spirooxaheptane II which was treated with NaH and 1,2,4-triazole in DMF to give (triazolylmethyl)cyclopentanol III. At 125 ppm III gave 100% control of Erysiphe graminis tritici and Puccinia recondita on wheat seedlings, and of Cochlibolus miyabeanus on rice. At 10 ppm III reduced by 84.2% the growth height of rice seedlings.

IT **115850-69-6P 115937-88-7P 115937-89-8P 115937-91-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as agrochem. **fungicide** and plant hormone)

RN 115850-69-6 CAPLUS

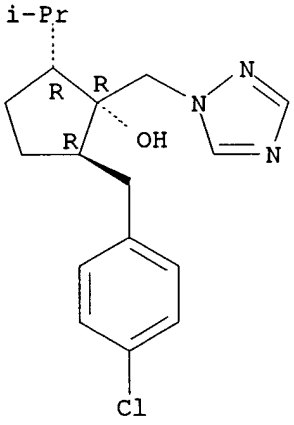
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2α,5α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



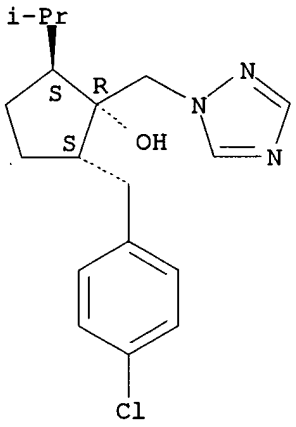
RN 115937-88-7 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2β,5α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



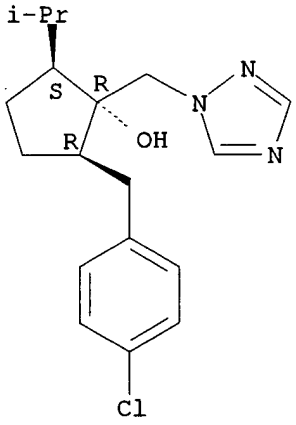
RN 115937-89-8 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2α,5β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 115937-91-2 CAPLUS
CN Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-, (1α,2β,5β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



FILE 'CAOLD' ENTERED AT 12:04:37 ON 20 JAN 2006

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

Searcher : Shears 571-272-2528

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

L10 0 L6

FILE 'USPATFULL' ENTERED AT 12:05:06 ON 20 JAN 2006

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 19 Jan 2006 (20060119/PD)
FILE LAST UPDATED: 19 Jan 2006 (20060119/ED)
HIGHEST GRANTED PATENT NUMBER: US6988280
HIGHEST APPLICATION PUBLICATION NUMBER: US2006015978
CA INDEXING IS CURRENT THROUGH 19 Jan 2006 (20060119/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 19 Jan 2006 (20060119/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

L11 34 SEA ABB=ON PLU=ON L6
L12 33 SEA ABB=ON PLU=ON L11 AND (FUNGICID? OR ANTIFUNG? OR ANTI(W)(FUNG? OR ALGA##) OR PESTICID? OR INSECTICID? OR ALGICID? OR ANTIALGA##)
L13 18 SEA ABB=ON PLU=ON L12 NOT (PY=>2003 OR PD=>20031017)

L13 ANSWER 1 OF 18 USPATFULL on STN
ACCESSION NUMBER: 2002:75462 USPATFULL
TITLE: **Fungicidal** mixture
INVENTOR(S): Schelberger, Klaus, Gonnheim, GERMANY, FEDERAL REPUBLIC OF
Saur, Reinhold, Bohl-Iggelheim, GERMANY, FEDERAL REPUBLIC OF
Sauter, Hubert, Mannheim, GERMANY, FEDERAL REPUBLIC OF
Muller, Bernd, Frankenthal, GERMANY, FEDERAL REPUBLIC OF
Birner, Erich, Altleiningen, GERMANY, FEDERAL REPUBLIC OF
Leyendecker, Joachim, Hassloch, GERMANY, FEDERAL REPUBLIC OF
Hampel, Manfred, Neustadt, GERMANY, FEDERAL REPUBLIC OF
Ammermann, Eberhard, Heppenheim, GERMANY, FEDERAL REPUBLIC OF
Lorenz, Gisela, Neustadt, GERMANY, FEDERAL REPUBLIC OF
Strathmann, Siegfried, Limburgerhof, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6369090	B1	20020409	
	WO 9854969		19981210	
APPLICATION INFO.:	US 1999-424916		19991201	(9)
	WO 1998-EP2946		19980520	
			19991201	PCT 371 date

NUMBER DATE

Searcher : Shears 571-272-2528

PRIORITY INFORMATION:	DE 1997-19723281 19970604
DOCUMENT TYPE:	Utility
FILE SEGMENT:	GRANTED
PRIMARY EXAMINER:	Robinson, Allen J.
LEGAL REPRESENTATIVE:	Keil & Weinkauf
NUMBER OF CLAIMS:	20
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT:	669

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Fungicidal** mixtures comprise

a.1) a carbamate of the formula I.a, ##STR1##

in which X is CH or N, n is 0, 1 or 2 and R is halogen, alkyl or haloalkyl, or

a.2) the oxime ether carboxamide of the formula I.b ##STR2##

and

b.1) 4-[2-methyl-3-(4-tert-butylphenyl)propyl]-2,6-dimethyl morpholine ##STR3##

or

b.2) 4-(C.sub.10-C.sub.13-alkyl)-2,6-dimethylmorpholine ##STR4##

or

b.3)(RS)-1-[3-(4-tert-butylphenyl)-2-methylpropyl]piperidine ##STR5##

and

c) an active ingredient from the group of the azole **fungicides** (III),

in a synergistically effective amount.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 2 OF 18 USPATFULL on STN

ACCESSION NUMBER:	2000:161033 USPATFULL
TITLE:	**Fungicidal** compositions
INVENTOR(S):	Dutzmann, Stefan, Hilden, Germany, Federal Republic of Dehne, Heinz-Wilhelm, Monheim, Germany, Federal Republic of Kuck, Karl-Heinz, Langenfeld, Germany, Federal Republic of Brandes, Wilhelm, Leichlingen, Germany, Federal Republic of Kramer, Wolfgang, Burscheid, Germany, Federal Republic of
PATENT ASSIGNEE(S):	Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6153636		20001128
APPLICATION INFO.:	US 1999-296851		19990422 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1997-989044, filed on 11 Dec 1997, now patented, Pat. No. US 5965593 which is a division of Ser. No. US 1997-787599, filed on 22 Jan 1997, now patented, Pat. No. US 5736551 which is a division of Ser. No. US 1996-646788, filed on 21 May 1996, now patented, Pat. No. US 5639774 which is a division of Ser. No. US 1995-432741, filed on 2 May 1995, now patented, Pat. No. US 5569656 which is a division of Ser. No. US 1994-249511, filed on 26 May 1994, now patented, Pat. No. US 5439926

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1993-4318285	19930602

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Robinson, Allen J.
LEGAL REPRESENTATIVE: Norris, McLaughlin & Marcus, P.A.
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
LINE COUNT: 500
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel **fungicidal** composition comprising a **fungicidally** effective amount of a combination consisting of

(A) the known aminomethyl heterocycle of the formula ##STR1## and
(B) at least one other known **fungicidally** active compound selected from the group mentioned in the specification.

The novel compositions show a synergistic activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 3 OF 18 USPATFULL on STN
ACCESSION NUMBER: 1999:124929 USPATFULL
TITLE: **Fungicidal** compositions
INVENTOR(S): Dutzmann, Stefan, Hilden, Germany, Federal Republic of
Dehne, Heinz-Wilhelm, Monheim, Germany, Federal Republic of
Kuck, Karl-Heinz, Langenfeld, Germany, Federal Republic of
Brandes, Wilhelm, Leichlingen, Germany, Federal Republic of
Kramer, Wolfgang, Burscheid, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5965593		19991012
APPLICATION INFO.:	US 1997-989044		19971211 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1997-787599, filed on 22

Jan 1997, now patented, Pat. No. US 5736551 which is a division of Ser. No. US 1996-646788, filed on 21 May 1996, now patented, Pat. No. US 5639774 which is a division of Ser. No. US 1995-432741, filed on 2 May 1995, now patented, Pat. No. US 5569656 which is a division of Ser. No. US 1994-249511, filed on 26 May 1994, now patented, Pat. No. US 5439926

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1993-4318285	19930602

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Robinson, Allen J.
LEGAL REPRESENTATIVE: Sprung Kramer Schaefer & Briscoe
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
LINE COUNT: 482
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel **fungicidal** composition comprising a **fungicidally** effective amount of a combination consisting of

(A) the known aminomethyl heterocycle of the formula ##STR1## and
(B) at least one other known **fungicidally** active compound selected from the group mentioned in the specification.

The novel compositions show a synergistic activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 4 OF 18 USPATFULL on STN
ACCESSION NUMBER: 1998:36759 USPATFULL
TITLE: **Fungicidal** compositions
INVENTOR(S): Dutzmann, Stefan, Hilden, Germany, Federal Republic of
Dehne, Heinz-Wilhelm, Monheim, Germany, Federal Republic of
Kuck, Karl-Heinz, Langenfeld, Germany, Federal Republic of
Brandes, Wilhelm, Leichlingen, Germany, Federal Republic of
Kramer, Wolfgang, Burscheid, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5736551		19980407
APPLICATION INFO.:	US 1997-787599		19970122 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1996-646788, filed on 21 May 1996, now patented, Pat. No. US 5639744 which is a division of Ser. No. US 1995-432741, filed on 2 May 1995, now patented, Pat. No. US 5569656 which is a division of Ser. No. US 1994-249511, filed on 26 May 1994, now patented, Pat. No. US 5439926

NUMBER DATE

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1993-4318285	19930602

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Robinson, Allen J.
LEGAL REPRESENTATIVE: Sprung Kramer Schaefer & Briscoe
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
LINE COUNT: 478
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel **fungicidal** composition comprising a **fungicidally** effective amount of a combination consisting of

(A) the known aminomethyl heterocycle of the formula ##STR1## and (B) at least one other known **fungicidally** active compound selected from the group mentioned in the specification.

The novel compositions show a synergistic activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 5 OF 18 USPATFULL on STN
ACCESSION NUMBER: 97:52020 USPATFULL
TITLE: **Fungicidal** compositions
INVENTOR(S): Dutzmann, Stefan, Hilden, Germany, Federal Republic of
Dehne, Heinz-Wilhelm, Monheim, Germany, Federal Republic of
Kuck, Karl-Heinz, Langenfeld, Germany, Federal Republic of
Brandes, Wilhelm, Leichlingen, Germany, Federal Republic of
Kramer, Wolfgang, Burscheid, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5639774		19970617
APPLICATION INFO.:	US 1996-646788		19960521 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1995-432741, filed on 2 May 1995, now patented, Pat. No. US 5569656 which is a division of Ser. No. US 1994-249511, filed on 26 May 1994, now patented, Pat. No. US 5439926

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1993-4318285	19930602

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Robinson, Allen J.
LEGAL REPRESENTATIVE: Sprung Horn Kramer & Woods
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 473
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel **fungicidal** composition comprising a **fungicidally** effective amount of a combination consisting of

(A) the known aminomethyl heterocycle of the formula ##STR1## and (B) at least one other known **fungicidally** active compound selected from the group mentioned in the specification.

The novel compositions show a synergistic activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 6 OF 18 USPATFULL on STN
ACCESSION NUMBER: 96:99208 USPATFULL
TITLE: **Fungicidal** compositions
INVENTOR(S): Dutzmann, Stefan, Hilden, Germany, Federal Republic of
Dehne, Heinz-Wilhelm, Monheim, Germany, Federal Republic of
Kuck, Karl-Heinz, Langenfeld, Germany, Federal Republic of
Brandes, Wilhelm, Leichlingen, Germany, Federal Republic of
Kr amer, Wolfgang, Burscheid, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5569656		19961029
APPLICATION INFO.:	US 1995-432741		19950502 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-249511, filed on 26 May 1994, now patented, Pat. No. US 5439926		

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1993-4318285	19930602

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Robinson, Allen J.
LEGAL REPRESENTATIVE: Sprung Horn Kramer & Woods
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 509
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel **fungicidal** composition comprising a **fungicidally** effective amount of a combination consisting of

(A) the known aminomethyl heterocycle of: the ##STR1## and (B) at least one other known **fungicidally** active compound selected from the group mentioned in the specification.

The novel compositions show a synergistic activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 7 OF 18 USPATFULL on STN
ACCESSION NUMBER: 96:27206 USPATFULL
TITLE: Biocidal compositions for industrial materials
INVENTOR(S): Arahira, Masato, Iwaki, Japan
Saishoji, Toshihide, Iwaki, Japan

	Ohsugi, Katsuhisa, Tokyo, Japan
	Kumazawa, Satoru, Iwaki, Japan
PATENT ASSIGNEE(S):	Kureha Kagaku Kogyo K.K., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5504096		19960402
APPLICATION INFO.:	US 1993-143023		19931029 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1992-918152, filed on 24 Jul 1992, now patented, Pat. No. US 5292764 which is a continuation of Ser. No. US 1990-604397, filed on 26 Oct 1990, now abandoned which is a continuation of Ser. No. US 1989-344932, filed on 28 Apr 1989, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1988-111713	19880510
	JP 1988-200051	19880812

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Fay, Zohreh
ASSISTANT EXAMINER: MacMillan, Keith
LEGAL REPRESENTATIVE: Lowe, Price, LeBlanc & Becker
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 2
LINE COUNT: 696
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein is a method for preventing deterioration of an industrial material by using an azole derivative represented by the following formula ##STR1## wherein X means a halogen atom or a C.sub.1 -C.sub.5 alkyl, haloalkyl, phenyl, cyano or nitro group, n stands for 0 or an integer of 1-5, A denotes a nitrogen atom or CH, R.sub.1 and R.sub.2 mean individually a hydrogen atom or a C.sub.1 -C.sub.5 alkyl group, R.sub.3 denotes a hydrogen atom or a C.sub.1 -C.sub.3 alkyl group, and when n is an integer of 2-5, Xs may be the same or different. A biocidal composition for the method is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 8 OF 18 USPATFULL on STN
ACCESSION NUMBER: 95:101349 USPATFULL
TITLE: Process for preparation of azolylmethylcycloalkanol derivatives

INVENTOR(S):	Yoshida, Eyji, Iwaki, Japan
	Kusano, Nobuyuki, Iwaki, Japan
	Kumazawa, Satoru, Iwaki, Japan
PATENT ASSIGNEE(S):	Kureha Chemical Industry Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5466816		19951114
APPLICATION INFO.:	US 1994-337275		19941110 (8)

	NUMBER	DATE

PRIORITY INFORMATION: JP 1993-305816 19931111
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Morris, Patricia L.
LEGAL REPRESENTATIVE: Testa, Hurwitz & Thibeault
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 725
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A process for preparing a derivative of azolylmethylcycloalkanol of the following formula (I) comprising, providing a solid-liquid two-phase mixture of a cycloalkanone derivative of formula (II), an azole compound of formula (III), a metal oxide of formula (IV), and an organic solvent, and adding a sulfonium compound of formula (V) to said solid-liquid two-phase mixture under heating while stirring, ##STR1## wherein R.sup.1 and R.sup.2 individually represent a hydrogen atom or an alkyl group; X is a halogen atom, an alkyl group, a haloalkyl group, a phenyl group, a cyano group, or a nitro group; m is an integer of 0 to 5 (when m is 2 or larger, Xs may be either the same or different); n is an integer of 0 to 2; A represents a nitrogen atom or a group CH; M.sup.1 represents an alkali metal atom or an alkaline earth metal atom; M.sup.2 represents an alkaline earth metal atom, a zinc atom, or two alkali metal atoms; Y represents a halogen atom or a C.sub.1 -C.sub.4 alkoxysulfonyloxy group; and p denotes an integer of 0 or 1.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 9 OF 18 USPATFULL on STN
ACCESSION NUMBER: 95:78306 USPATFULL
TITLE: Process for separating isomers of azolylmethylcyclopentanol derivatives
INVENTOR(S): Hayashi, Shoichiro, Iwaki, Japan
Sunagawa, Kazuhiko, Iwaki, Japan
Kumazawa, Satoru, Iwaki, Japan
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5446167		19950829	
APPLICATION INFO.:	US 1994-321093		19941011	(8)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1993-280103	19931013

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ramsuer, Robert W.
ASSISTANT EXAMINER: Cross, Laura
LEGAL REPRESENTATIVE: McAulay Fisher Nissen Goldberg & Kiel
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 401
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A process for separating a cis isomer from a mixture of the cis isomer and a trans isomer of an azolylmethylcyclopentanol derivative of the formula (I): ##STR1## wherein, R.sup.1 and R.sup.2 each independently represent a hydrogen atom or an alkyl group; each X

represents a halogen atom, an alkyl group, a haloalkyl group, a phenyl group, a cyano group or a nitro group; n is an integer of from 0 to 5; A represents a nitrogen atom or a CH group; and each X may be identical or different when n is an integer of from 2 to 5, comprising the steps of dehydrating selectively the trans isomer in the presence of an acid and isolating the cis isomer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 10 OF 18 USPATFULL on STN
ACCESSION NUMBER: 95:71376 USPATFULL
TITLE: **Fungicidal** compositions
INVENTOR(S): Dutzmann, Stefan, Hilden, Germany, Federal Republic of
Dehne, Heinz-Wilhelm, Monheim, Germany, Federal Republic of
Kuck, Karl-Heinz, Langenfeld, Germany, Federal Republic of
Brandes, Wilhelm, Leichlingen, Germany, Federal Republic of
Kramer, Wolfgang, Burscheid, Germany, Federal Republic of
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5439926		19950808	
APPLICATION INFO.:	US 1994-249511		19940526	(8)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1993-43182852	19930602

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Robinson, Allen J.
LEGAL REPRESENTATIVE: Sprung Horn Kramer & Woods
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 463
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel **fungicidal** composition comprising a **fungicidally** effective amount of a combination consisting of

(A) the known aminomethyl heterocycle of the formula ##STR1## and (B) at least one other known **fungicidally** active compound selected from the group mentioned in the specification.

The novel compositions show a synergistic activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 11 OF 18 USPATFULL on STN
ACCESSION NUMBER: 95:41041 USPATFULL
TITLE: Cyclopentanecarboxylic acid derivatives useful for producing azole compounds
INVENTOR(S): Kumazawa, Satoru, Iwaki, Japan
Shimizu, Susumu, Iwaki, Japan
Enari, Hiroyuki, Iwaki, Japan

Ito, Atsushi, Iwaki, Japan
Ikeda, Susumu, Naka, Japan
Sato, Nobuo, Iwaki, Japan
Saishoji, Toshihide, Iwaki, Japan
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5414105		19950509
APPLICATION INFO.:	US 1993-61526		19930517 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1992-910450, filed on 8 Jul 1992, now patented, Pat. No. US 5239089 which is a division of Ser. No. US 1991-691406, filed on 25 Apr 1991, now patented, Pat. No. US 5159118 which is a division of Ser. No. US 1990-514170, filed on 24 Apr 1990, now patented, Pat. No. US 5028254 which is a division of Ser. No. US 1987-115084, filed on 30 Oct 1987, now patented, Pat. No. US 4938792

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1986-265559	19861110
	JP 1987-161126	19870630
	JP 1987-271277	19871027

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lee, Mary C.
ASSISTANT EXAMINER: Haley, Jacqueline
LEGAL REPRESENTATIVE: Nixon & Vanderhye
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
LINE COUNT: 2373
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are an azole derivative represented by the formula (I): ##STR1## wherein R.sup.1 and R.sup.2 respectively represent a (C.sub.1 -C.sub.5) alkyl group or a hydrogen atom; X represents a halogen atom, a (C.sub.1-C.sub.5) alkyl group or a phenyl group; n represents an integer of from 0 to 2 and A represents a nitrogen atom or a CH, provided that R.sup.1 is not a hydrogen atom when R.sup.2 is a hydrogen atom, a process for producing the azole derivative represented by the formula (I), and an agricultural and horticultural composition containing the azole derivative represented by the formula (I).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 12 OF 18 USPATFULL on STN
ACCESSION NUMBER: 94:20199 USPATFULL
TITLE: Azole derivatives for protecting industrial materials from bacteria
INVENTOR(S): Arahira, Masato, Iwaki, Japan
Saishoji, Toshihide, Iwaki, Japan
Ohsugi, Katsuhisa, Tokyo, Japan
Kumazawa, Satoru, Iwaki, Japan
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo K.K., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5292764		19940308
APPLICATION INFO.:	US 1992-918152		19920724 (7)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1990-604397, filed on 26 Oct 1990, now abandoned which is a continuation of Ser. No. US 1989-344932, filed on 28 Apr 1989, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1988-111713	19880510
	JP 1988-200051	19880812

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Waddell, Frederick E.
ASSISTANT EXAMINER: Hook, Gregory
LEGAL REPRESENTATIVE: Lowe, Price, LeBlanc & Becker
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
LINE COUNT: 644
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein is a method for preventing deterioration of an industrial material by using an azole derivative represented by the following formula ##STR1## wherein X means a halogen atom or a C.sub.1 -C.sub.5 alkyl, haloalkyl, phenyl, cyano or nitro group, n stands for 0 or an integer of 1-5, A denotes a nitrogen atom or CH, R.sub.1 and R.sub.2 mean individually a hydrogen atom or a C.sub.1 -C.sub.5 alkyl group, R.sub.3 denotes a hydrogen atom or a C.sub.1 -C.sub.3 alkyl group, and when n is an integer of 2-5, Xs may be the same or different. A biocidal composition for the method is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 13 OF 18 USPATFULL on STN
ACCESSION NUMBER: 93:72102 USPATFULL
TITLE: Azole derivative and azole mycocide
INVENTOR(S): Kumazawa, Satoru, Iwaki, Japan
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5240955		19930831
APPLICATION INFO.:	US 1992-928954		19920813 (7)

RELATED APPLN. INFO.: Division of Ser. No. US 1991-666488, filed on 6 Mar 1991, now patented, Pat. No. US 5162356 which is a continuation of Ser. No. US 1988-201982, filed on 3 Jun 1988, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1987-141144	19870605
	JP 1987-317754	19871216

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Morris, Patricia L.
LEGAL REPRESENTATIVE: Nixon & Vanderhye

NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 110 Drawing Figure(s); 55 Drawing Page(s)
LINE COUNT: 560
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are azole derivatives or the salts thereof which are represented by the general formula (I): ##STR1## wherein X represents a halogen atom, an alkyl group having 1 to 5 carbon atoms, a haloalkyl group, a phenyl group, a cyano group, or a nitro group, Xs being either the same or different from each other; n represents an integer of 1 to 5; A represents a nitrogen atom or CH; and one of R.sub.1 and R.sub.2 represents an alkyl group having 1 to 5 carbon atoms and the other a hydrogen atom or an alkyl group having 1 to 5 carbon atoms, with the proviso that when n is 1 or 2, X does not represent a halogen atom, an alkyl group having 1 to 5 carbon atoms or a phenyl group, and mycocides comprising an effective amount of azole derivative or medically or veterinarily acceptable salt thereof, said azole derivative being represented by the general formula (II): ##STR2## wherein X represents a halogen atom, an alkyl group having 1 to 5 carbon atoms, a haloalkyl group, a phenyl group, a cyano group, or a nitro group, Xs being either the same or different from each other; n represents an integer of 0 to 5; A represents a nitrogen atom or CH; and R.sub.1 and R.sub.2 respectively represent a hydrogen atom or an alkyl group having 1 to 5 carbon atoms, and a diluent or a carrier which is medically or veterinarily acceptable.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 14 OF 18 USPATFULL on STN
ACCESSION NUMBER: 93:70014 USPATFULL
TITLE: Oxirane derivatives useful for making **fungicidal** azole compounds
INVENTOR(S): Kumazawa, Satoru, Iwaki, Japan
Shimizu, Susumu, Iwaki, Japan
Enari, Hiroyuki, Iwaki, Japan
Ito, Atsushi, Iwaki, Japan
Ikeda, Susumu, Naka, Japan
Sato, Nobuo, Iwaki, Japan
Saishoji, Toshihide, Iwaki, Japan
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5239089		19930824
APPLICATION INFO.:	US 1992-910450		19920708 (7)

RELATED APPLN. INFO.: Division of Ser. No. US 1991-691406, filed on 25 Apr 1991, now patented, Pat. No. US 5159118 which is a division of Ser. No. US 1990-514170, filed on 24 Apr 1990, now patented, Pat. No. US 5028254 which is a division of Ser. No. US 1987-115084, filed on 30 Oct 1987, now patented, Pat. No. US 4938792

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1986-265559	19861110
	JP 1987-161126	19870630

	JP 1987-271277 19871027
DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Morris, Patricia L.
LEGAL REPRESENTATIVE:	Nixon & Vanderhye
NUMBER OF CLAIMS:	1
EXEMPLARY CLAIM:	1
LINE COUNT:	2257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are an azole derivative represented by the formula (I): ##STR1## wherein R.sup.1 and R.sup.2 respectively represent a (C.sub.1 -C.sub.5) alkyl group or a hydrogen atom; X represents a halogen atom, a (C.sub.1 -C.sub.5) alkyl group or a phenyl group; n represents an integer of from 0 to 2 and A represents a nitrogen atom or a CH, provided that R.sup.1 is not a hydrogen atom when R.sup.2 is a hydrogen atom, a process for producing the azole derivative represented by the formula(I),and an agricultural and horticultural composition containing the azole derivative represented by the formula(I).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 15 OF 18 USPATFULL on STN

ACCESSION NUMBER:	92:97067 USPATFULL
TITLE:	Azole mycocide and method of treating mycosis
INVENTOR(S):	Arahira, Masato, Iwaki, Japan Saishoji, Toshihide, Iwaki, Japan Ikeda, Susumu, Naka, Japan Kumazawa, Satoru, Iwaki, Japan
PATENT ASSIGNEE(S):	Kureha Kagaku Kogyo Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5162356		19921110
APPLICATION INFO.:	US 1991-666488		19910306 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1988-201982, filed on 3 Jun 1988, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1987-141144	19870605
	JP 1987-317754	19871216
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Morris, Patricia L.	
LEGAL REPRESENTATIVE:	Nixon & Vanderhye	
NUMBER OF CLAIMS:	2	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	110 Drawing Figure(s); 55 Drawing Page(s)	
LINE COUNT:	511	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are azole derivatives or the salts thereof which are represented by the general formula (I): ##STR1## wherein X represents a halogen atom, an alkyl group having 1 to 5 carbon atoms, a haloalkyl group, a phenyl group, a cyano group, or a nitro group, Xs being either the same or different from each other; n represents an integer of 1 to 5; A represents a nitrogen atom or CH; and one of R.sub.1 and R.sub.2 represents an alkyl group having 1 to

5 carbon atoms and the other a hydrogen atom or an alkyl group having 1 to 5 carbon atoms, with the proviso that when n is 1 or 2, X does not represent a halogen atom, an alkyl group having 1 to 5 carbon atoms or a phenyl group, and mycocides comprising an effective amount of azole derivative or medically or veterinarily acceptable salt thereof, said azole derivative being represented by the general formula (II): ##STR2## wherein X represents a halogen atom, an alkyl group having 1 to 5 carbon atoms, a haloalkyl group, a phenyl group, a cyano group, or a nitro group, Xs being either the same or different from each other; n represents an integer of 0 to 5; A represents a nitrogen atom or CH; and R.sub.1 and R.sub.2 respectively represent a hydrogen atom or an alkyl group having 1 to 5 carbon atoms, and a diluent or a carrier which is medically or veterinarily acceptable.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 16 OF 18 USPATFULL on STN

ACCESSION NUMBER:	92:89227 USPATFULL
TITLE:	Cyclopentanone derivatives
INVENTOR(S):	Kumazawa, Satoru, Iwaki, Japan Shimizu, Susumu, Iwaki, Japan Enari, Hiroyuki, Iwaki, Japan Ito, Atsushi, Iwaki, Japan Ikeda, Susumu, Naka, Japan Sato, Nobuo, Iwaki, Japan Saishoji, Toshihide, Iwaki, Japan
PATENT ASSIGNEE(S):	Kureha Kagaku Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5159118		19921027
APPLICATION INFO.:	US 1991-691406		19910425 (7)

RELATED APPLN. INFO.: Division of Ser. No. US 1990-514170, filed on 24 Apr 1990, now patented, Pat. No. US 5028254 which is a division of Ser. No. US 1987-115084, filed on 30 Oct 1987, now patented, Pat. No. US 4938792

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1986-265559	19861110
	JP 1987-161126	19870630
	JP 1987-271277	19871027

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Reamer, James H.
LEGAL REPRESENTATIVE:	Nixon & Vanderhye
NUMBER OF CLAIMS:	1
EXEMPLARY CLAIM:	1
LINE COUNT:	2344

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are an azole derivative represented by the formula(I): ##STR1## wherein R.sup.1 and R.sup.2 respectively represent a (C.sub.1 -C.sub.5) alkyl group or a hydrogen atom; X represents a halogen atom, a (C.sub.1 -C.sub.5) alkyl group or a phenyl group; n represents an integer of from 0 to 2 and A represents a nitrogen atom or a CH, provided that R.sup.1 is not a hydrogen atom when R.sup.2 is a hydrogen atom, a process for

producing the azole derivative represented by the formula(I), and an agricultural and horticultural composition containing the azole derivative represented by the formula(I).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 17 OF 18 USPATFULL on STN
ACCESSION NUMBER: 91:52195 USPATFULL
TITLE: Azole derivatives and agricultural and horticultural chemical composition containing the same
INVENTOR(S): Kumazawa, Satoru, Iwaki, Japan
Shimizu, Susumu, Iwaki, Japan
Enari, Hiroyuki, Iwaki, Japan
Ito, Atsushi, Iwaki, Japan
Ikeda, Susumu, Naka, Japan
Sato, Nobuo, Iwaki, Japan
Saishoji, Toshihide, Iwaki, Japan
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5028254		19910702
APPLICATION INFO.:	US 1990-514170		19900424 (7)

RELATED APPLN. INFO.: Division of Ser. No. US 1987-115084, filed on 30 Oct 1987, now patented, Pat. No. US 4938792, issued on 3 Jul 1990

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1986-265559	19861110
	JP 1987-161126	19870630
	JP 1987-271227	19871027

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lee, Mary C.
ASSISTANT EXAMINER: Morris, Patricia L.
LEGAL REPRESENTATIVE: Nixon & Vanderhye
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1,3
NUMBER OF DRAWINGS: 76 Drawing Figure(s); 76 Drawing Page(s)
LINE COUNT: 2303
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed herein are an azole derivative represented by the formula (I): ##STR1## wherein R.sup.1 and R.sup.2 respectively represent a (C.sub.1 -C.sub.5) alkyl group or a hydrogen atom; X represents a halogen atom, a (C.sub.1 -C.sub.5) alkyl group or a phenyl group; n represents an integer of from 0 to 2 and A represents a nitrogen atom or a CH, provided that R.sup.1 is not a hydrogen atom when R.sup.2 is a hydrogen atom, a process for producing the azole derivative represented by the formula (I), and an agricultural and horticultural composition containing the azole derivative represented by the formula (I).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 18 OF 18 USPATFULL on STN
ACCESSION NUMBER: 90:52523 USPATFULL

TITLE: Azole derivatives and agricultural and horticultural chemical composition containing the same

INVENTOR(S): Kumazawa, Satoru, Iwaki, Japan
Shimizu, Susumu, Iwaki, Japan
Enari, Hiroyuki, Iwaki, Japan
Ito, Atsushi, Iwaki, Japan
Ikeda, Susumu, Naka, Japan
Sato, Nobuo, Iwaki, Japan
Saishoji, Toshihide, Iwaki, Japan
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4938792		19900703
APPLICATION INFO.:	US 1987-115084		19871030 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1986-265559	19861110
	JP 1987-161126	19870630
	JP 1987-271277	19871027

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Hollrah, Glennon H.
ASSISTANT EXAMINER: Morris, Patricia L.
LEGAL REPRESENTATIVE: Nixon & Vanderhye, P.C.
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 76 Drawing Figure(s); 76 Drawing Page(s)
LINE COUNT: 2310

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are an azole derivative represented by the formula(I): ##STR1## wherein R.sup.1 and R.sup.2 respectively represent a (C.sub.1 -C.sub.5) alkyl group or a hydrogen atom; X represents a halogen atom, a (C.sub.1 -C.sub.5) alkyl group or a phenyl group; n represents an integer of from 0 to 2 and A represents a nitrogen atom or a CH, provided that R.sup.1 is not a hydrogen atom when R.sup.2 is a hydrogen atom, a process for producing the azole derivative represented by the formula(I), and an agricultural and horticultural composition containing the azole derivative represented by the formula(I).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

FILE 'MEDLINE' ENTERED AT 12:06:01 ON 20 JAN 2006

FILE 'BIOSIS' ENTERED AT 12:06:01 ON 20 JAN 2006

FILE 'EMBASE' ENTERED AT 12:06:01 ON 20 JAN 2006

FILE 'AGRICOLA' ENTERED AT 12:06:01 ON 20 JAN 2006

FILE 'CABA' ENTERED AT 12:06:01 ON 20 JAN 2006

FILE 'CROPU' ENTERED AT 12:06:01 ON 20 JAN 2006

FILE 'CROPB' ENTERED AT 12:06:01 ON 20 JAN 2006

SUBSTANCE QUERIES NOT VALID IN THIS FILE
The logic expression entered contains L#s or saved query names which correspond to structures built by the STRUCTURE command or to screen sets. These must be searched in a substance file such as the REGISTRY file. In some files you may use a Registry Number answer set from a structure search as a search term or profile in some bibliographic file containing Registry Numbers, e.g. the CA file. For an explanation, enter "HELP CROSSOVER" at an arrow prompt (=>).

=> fil medl,biosi,embas; s l6
FILE 'MEDLINE' ENTERED AT 12:06:26 ON 20 JAN 2006

FILE 'BIOSIS' ENTERED AT 12:06:26 ON 20 JAN 2006

FILE 'EMBASE' ENTERED AT 12:06:26 ON 20 JAN 2006

L14 8 SEA ABB=ON PLU=ON L6
L15 8 DUP REM L14 (0 DUPLICATES REMOVED)
L16 8 SEA ABB=ON PLU=ON L15 AND (FUNGICID? OR ANTIFUNG? OR ANTI(W)(FUNG? OR ALGA##) OR PESTICID? OR INSECTICID? OR ALGICID? OR ANTIALGA##)

L16 ANSWER 1 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2003:323430 BIOSIS
DOCUMENT NUMBER: PREV200300323430
TITLE: Degradation of ipconazole by microorganisms isolated from paddy soil.
AUTHOR(S): Eizuka, Takayoshi [Reprint Author]; Ito, Atsushi; Chida, Tsuneaki
CORPORATE SOURCE: Nishiki Research Laboratories, Kureha Chemical Industry Co., Ltd., Nishiki, Iwaki, Fukushima, 974-8686, Japan
eizuka@kureha.co.jp
SOURCE: Journal of Pesticide Science, (2003) Vol. 28, No. 2, pp. 200-207. print.
CODEN: NNGADV. ISSN: 0385-1559.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 9 Jul 2003
Last Updated on STN: 22 Aug 2003

AB Ipconazole is a triazole **fungicide** for treating rice seed. In the present study, degradation of ipconazole by isolated microorganisms from paddy soil was investigated. To enrich the degraders, the soil sample was perfused with ipconazole solution for 41 days. After the perfusion, the ipconazole-tolerant microbes in the perfused soil were cultivated on various media containing ipconazole. One bacterial, 12 actinomycetous, and 7 fungal strains showed ipconazole-degrading activity among 39 strains of bacteria, 14 strains of actinomycetes, and 14 strains of fungi in the liquid media containing 0.1 mug/ml 14C-ipconazole after 28 days of incubation. In

particular, 8 strains of actinomycetes decomposed more than 90% of the ipconazole. The metabolism of ipconazole was investigated using two strains of actinomycetes, A1 and D16, with a higher level of degrading activity than the others. The isolates A1 and D16 were identified as Kitasatospora sp. and Streptomyces sp., respectively. A1 degraded more than 80% of the applied ipconazole after 3 days incubation in a liquid culture containing 14C-ipconazole at 1 mug/ml. D16 degraded approximately 20% of the applied ipconazole after 2 days, but more than 99% after 6 days of incubation. The primary metabolic reaction could be dominated by oxidation at either the carbon of the methine in the isopropyl group or the carbon of the benzylmethylene. A1 and D16 also possess the ability to oxidize the carbon of the methyl portion of the isopropyl group as well as that of the methylene portion of the cyclopentane ring. The polar metabolites in ethyl acetate extracts had increased by the end of incubation. 1,2,4-Triazole was detected as a water-soluble metabolite in the culture. There is little information available regarding microbial degradation of azole compounds, but our results suggest that some soil microorganisms contribute to the biodegradation of the triazole **fungicide** ipconazole in soil.

L16 ANSWER 2 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2001:116536 BIOSIS
DOCUMENT NUMBER: PREV200100116536
TITLE: Sensitivity of Fusarium moniliforme isolates to ipconazole.
AUTHOR(S): Tateishi, Hideaki [Reprint author]; Chida, Tsuneaki
CORPORATE SOURCE: Nishiki Research Laboratories, Kureha Chemical Industry Co., Ltd., Nishiki, Iwaki, 974-8686, Japan
h-tateishi@kureha.co.jp
SOURCE: Journal of General Plant Pathology, (November, 2000) Vol. 66, No. 4, pp. 353-359. print.
ISSN: 1345-2630.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 7 Mar 2001
Last Updated on STN: 15 Feb 2002

AB To estimate the sensitivity of Fusarium moniliforme to ipconazole, a sterol biosynthesis inhibitor (SBI), minimum inhibitory concentrations (MIC) were determined for isolates which were collected before the launch of ipconazole as a rice seed disinfectant. Research institutes from various prefectures in Japan supplied 211 isolates (group I) from their collections, and 84 isolates (group II) were isolated from rice paddy fields in Iwaki, Fukushima Prefecture. In group I, the MIC ranged from 0.10 to 6.25 mug/ml with a peak at 0.39 mug/ml. In group II, MIC values had the same range as group I, but the main peak was at 0.20 mug/ml. Ipconazole sensitivity did not differ significantly among groups I and II. Though the ranges of MIC values for ipconazole, pefurazoate and triflumizole were different in 60 isolates randomly chosen from group I, positive correlations were observed in their sensitivities to SBIs, suggesting a common mechanism in F. moniliforme for lowering sensitivities to SBIs. Among the 14 isolates tested, isolates with MIC values lower than 0.78 mug/ml for ipconazole were pathogenic to rice seedlings, and all the isolates with MIC values higher than or equal to 1.56 mug/ml were not pathogenic in the nursery test. Good protection against isolates causing "Bakanae" disease was obtained by dipping seeds for 24 hr in ipconazole. The pathogenic isolates can be controlled by the seed treatment with the

practical dosage of ipconazole because of the adequate margin between the highest MIC value for the pathogenic isolates and the treatment concentration. In addition, the low or lack of pathogenicity of the isolates less sensitive to ipconazole may also contribute to the stable efficacy of ipconazole.

L16 ANSWER 3 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2000:434817 BIOSIS
DOCUMENT NUMBER: PREV200000434817
TITLE: Development of new **fungicides**, ipconazole and metconazole.
AUTHOR(S): Kumazawa, Satoru [Reprint author]; Ito, Atsushi [Reprint author]; Saishoji, Toshihide; Chuman, Hiroshi
CORPORATE SOURCE: Nishiki Research Laboratory, Kureha Chemical Industry Company, Ltd., 16 Ochiai, Nishiki-machi, Iwaki, Fukushima, 974-8686, Japan
SOURCE: Journal of Pesticide Science, (2000) Vol. 25, No. 3, pp. 321-331. print.
CODEN: NNGADV. ISSN: 0385-1559.
DOCUMENT TYPE: Article
LANGUAGE: English; Japanese
ENTRY DATE: Entered STN: 11 Oct 2000
Last Updated on STN: 10 Jan 2002

L16 ANSWER 4 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 1999:141691 BIOSIS
DOCUMENT NUMBER: PREV199900141691
TITLE: **Antifungal** properties of the seed disinfectant ipconazole and its protection against "Bakanae" and other diseases of rice.
AUTHOR(S): Tateishi, Hideaki [Reprint author]; Saishoji, Toshihide; Suzuki, Toji [Reprint author]; Chida, Tsuneaki [Reprint author]
CORPORATE SOURCE: Nishiki Res. Lab., Kureha Chem. Industry Co. Ltd., Nishiki, Iwaki 974-8686, Japan
SOURCE: Annals of the Phytopathological Society of Japan, (Oct., 1998) Vol. 64, No. 5, pp. 443-450. print.
CODEN: NSBGAM. ISSN: 0031-9473.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 31 Mar 1999
Last Updated on STN: 31 Mar 1999

AB The rice seed disinfectant, ipconazole, had **antifungal** in vitro activities against a wide range of plant pathogenic fungi from the Ascomycotina, Basidiomycotina, Deuteromycotina and Zygomycotina. Most of the EC50 values for the tested fungi did not exceed 0.5 mug/ml. Seed treatments with wettable powder containing 6% ipconazole protected against the major rice seed-borne and soil-borne diseases, "Bakanae" disease, Helminthosporium leaf spot, blast and seedling blights caused by Rhizopus sp. and Trichoderma viride. High concentrations of residual ipconazole, which varied with the method of application, were detected by HPLC analysis on the outer portion of seeds. Regardless of the method, the residual ipconazole in the intact seeds remained nearly the same after a period of water soaking. The isolation frequencies of Fusarium moniliforme, the causal fungus of "Bakanae" disease, from infected, untreated rice seeds were 75%, 25% and 15% from hulls, endosperm and embryo, respectively.

Ipconazole permeated into the seeds in a sufficient amount to be fungitoxic or fungistatic during treatment conditions and successive water soaking. In shake culture, mycelial growth of F. moniliforme was reduced by 50% and gibberellin production was totally inhibited by 0.1 muM of ipconzaole. The inhibition of gibberellin production at the fungistatic concentration may partially contribute to its activity against "Bakanae" disease. In a paddy field trial, ipconazole-treated seedlings showed no "Bakane" symptom through harvest time. The protective action of ipconazole appears to consist of both **fungicidal** and fungistatic activities.

L16 ANSWER 5 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 1998:351306 BIOSIS
DOCUMENT NUMBER: PREV199800351306
TITLE: Structure-activity relationship of enantiomers of the azole **fungicide** ipconazole and its related compounds: **Fungicidal** and plant growth inhibitory activities.
AUTHOR(S): Saishoji, Toshihide [Reprint author]; Ito, Atsushi [Reprint author]; Kumazawa, Satoru [Reprint author]; Chuman, Hiroshi
CORPORATE SOURCE: Nishiki Res. Lab., Kureha Chem. Ind. Co. Ltd., 16 Ochiai, Nishiki-machi, Iwaki, Fukushima 974, Japan
SOURCE: Journal of Pesticide Science, (1998) Vol. 23, No. 2, pp. 129-136. print.
CODEN: NNGADV. ISSN: 0385-1559.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 13 Aug 1998
Last Updated on STN: 10 Sep 1998
AB Enantiomers of a seed treatment **fungicide**, ipconazole, (1RS,2SR,5RS; IRS,2SR,5SR)-2-(4-Chlorobenzyl)-5-isopropyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol, and its related compounds which have no or differing alkyl groups at the fifth position on the cyclopentane ring in place of the isopropyl group were prepared, and their **fungicidal** and plant growth inhibitory activities were examined. of the eighteen enantiomers tested, high **fungicidal** activity was observed for nine enantiomers with identical absolute configuration types. Two **fungicidal** enantiomers substituted with no alkyl group or a methyl group (I-B and II-B, respectively) retarded the growth of wheat and cucumber. The other enantiomers did not affect the growth of wheat or cucumber except non-**fungicidal** enantiomers substituted with an ethyl group, which caused growth inhibition of wheat seedlings. The morphology of plants treated with I-B or II-B was similar to that of plants treated with uniconazole, a known gibberellin biosynthesis inhibitor.

L16 ANSWER 6 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 1997:301073 BIOSIS
DOCUMENT NUMBER: PREV199799600276
TITLE: Synthesis of stereoisomers of ipconazole and their **fungicidal** and plant growth inhibitory activities.
AUTHOR(S): Ito, Atsushi; Saishoji, Toshihide; Kumazawa, Satoru
CORPORATE SOURCE: Nishiki Res. Lab., Kureha Chem. Industry Company, Ltd., Nishiki-machi, Iwaki 974, Japan
SOURCE: Journal of Pesticide Science, (1997) Vol. 22, No. 2,

pp. 119-125.
CODEN: NNGADV. ISSN: 0385-1559.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 9 Jul 1997
Last Updated on STN: 5 Aug 1997

AB Two racemic diastereomers 5a and 5b, both of which are active ingredient of a seed treatment **fungicide** on rice, ipconazole, (1RS, 2SR, 5RS; 1RS, 2SR, 5SR)-2-(4-chlorobenzyl)-5-isopropyl-1-(1H-1, 2,4-triazol-1-ylmethyl)cyclopentanol, and two other racemic diastereomers (1RS, 2RS, 5RS)-5c and (1RS, 2RS, 5SR)-5d were synthesized, and **fungicidal** activity and plant growth inhibitory activity were examined. Enantiomers of 5a and 5b were prepared, and their **fungicidal** activities were also examined. Racemic diastereomers 5a, 5b and 5d were more active than 5c in **fungicidal** activity (EC-50 value) in vitro on Gibberella fujikuroi Cochliobolus miyabeanus and Pyricularia oryzae. In plant growth inhibitory activity test for seed treatment on rice, only 5d was slightly active in the first sheath growth inhibition. The comparative test of enantiomers in vitro revealed that the **fungicidal** activities of (-)-5a and (-)-5b were higher than those of corresponding (+)-5a and (+)-5b, respectively.

L16 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 1997:290321 BIOSIS
DOCUMENT NUMBER: PREV199799589524
TITLE: Recent success stories leading to commercializable bioactive compounds with the aid of traditional QSAR procedures.
AUTHOR(S): Fujita, Toshio
CORPORATE SOURCE: EMIL PROJECT, Fujitsu Kansai Syst. Lab., 2-2-6 Shironi, Chuo-ku, Osaka 540, Japan
SOURCE: Quantitative Structure-Activity Relationships, (1997) Vol. 16, No. 2, pp. 107-112.
CODEN: QSARDI. ISSN: 0931-8771.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 9 Jul 1997
Last Updated on STN: 5 Aug 1997

AB New successful applications of the Hansch-type traditional QSAR to key steps in designing novel bioactive compounds are reviewed. Studies for a benzhydrylbenzylpiperazine antimigraine agent (lomerizine), azole-type agricultural **fungicides** (metconazole and ipconazole), and a biphenylyloxobutanoic acid antiinflammatory agent (flobufen) were taken as the examples. Structural optimizations were nicely made by using the QSAR information sometimes along with findings obtained from 3D molecular modelling studies and/or hypotheses proposed for metabolic fates. The two azole **fungicides** were launched in 1994. The antimigraine and antiinflammatory agents are expected to be commercialized soon.

L16 ANSWER 8 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 1995:41127 BIOSIS
DOCUMENT NUMBER: PREV199598055427
TITLE: Metabolism of ipconazole, a new triazole **fungicide** for seed treatment, in rice plants.
AUTHOR(S): Eizuka, Takayoshi [Reprint author]; Saitoh, Kouki

[Reprint author]; Chida, Tsuneaki [Reprint author]; Satake, Keigo; Yamaguchi, Isamu
CORPORATE SOURCE: Nishiki Res. Lab., Kureha Chemical Industry Co. Ltd., Nishiki, Iwaki 974, Japan
SOURCE: Journal of Pesticide Science, (1994) Vol. 19, No. 4, pp. 285-297.
CODEN: NNGADV. ISSN: 0385-1559.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 25 Jan 1995
Last Updated on STN: 14 Mar 1995

AB The metabolism of ipconazole, (1RS,2SR,5RS; 1RS,2SR,5SR)-2-(4-chlorobenzyl)-5-isopropyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol, in rice seedlings and mature plants after seed treatment was investigated. Seeds were treated with two different types of 14C-labeled ipconazole, (T-14C)-ipconazole labeled at the triazole ring and (B-14C)-ipconazole labeled at the benzylmethylene position. After 22 days of seeding, 40-41% of the applied radioactivity was recovered from soil, 27% from roots and seeds, and only 0.36-0.42% from rice shoots. The main metabolites of ipconazole in rice seedlings after seed treatment or root application were oxidative products at the carbons of the isopropyl group (methyl and methine) and the benzylmethylene, although trace amounts of conjugated metabolites were observed. Seedlings from seeds treated with 14C-ipconazole were cultivated for 144 days in Wagner pots, and radioactive residues in harvested grains were analyzed. Residues in hulled rice from the plants treated with (T-14C)-ipconazole and (B-14C)-ipconazole were 2.5 mu-g eq./kg and 0.2 mu-g eq./kg, respectively. Ipconazole and its metabolites detected in seedlings were not found in hulled rice, and most of the radioactivity derived from (T-14C)-ipconazole was detected in the unextractable residue and water soluble fraction from hulled rice.

FILE CONTENT: 1969-PRESENT (VOL 144 ISS 3 (20060116/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1969-1987

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6958359 25 OCT 2005
DE 1020040544 27 OCT 2005
EP 1589024 26 OCT 2005
JP 2005320486 27 OCT 2005
WO 2005110983 24 NOV 2005

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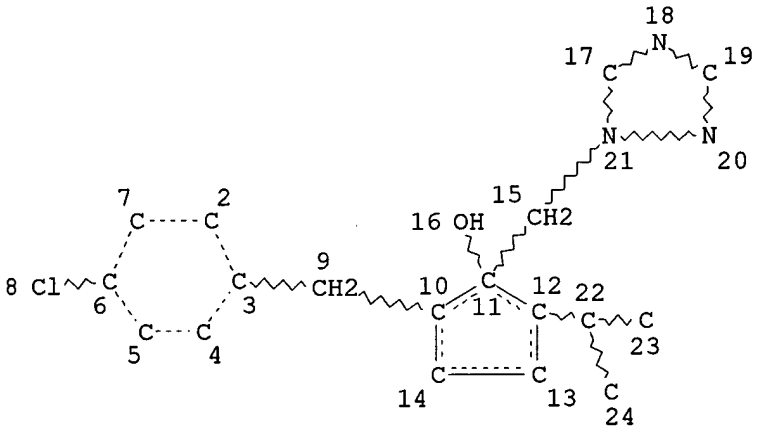
L5 STR



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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

ATTRIBUTES SPECIFIED AT SEARCH-TIME:
ECLEVEL IS LIM ON ALL NODES
ALL RING(S) ARE ISOLATED

L18 4 SEA FILE=MARPAT SSS FUL L5 (MODIFIED ATTRIBUTES)

100.0% PROCESSED 3744 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.02

L18 ANSWER 1 OF 4 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 141:255868 MARPAT
TITLE: Synergistic fungicidal and insecticidal compositions
INVENTOR(S): Andersch, Wolfram; Stuebler, Dietrich; Fischer, Ruediger; Heinemann, Ulrich; Kraemer, Wolfgang; Konze, Joerg; Wachendorff-Neumann, Ulrike; Jautelat, Manfred
PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany
SOURCE: Ger. Offen., 45 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent

LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10310906	A1	20040923	DE 2003-10310906	20030313
WO 2004080181	A1	20040923	WO 2004-EP1947	20040227

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 2003-10310906 20030313
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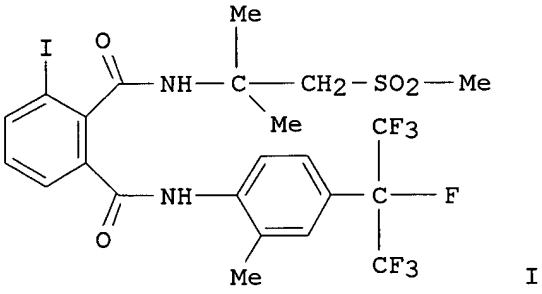

I

AB The title compns. comprise the phthalamide derivative I and any of 18 groups of known active ingredients.

L18 ANSWER 2 OF 4 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 126:89373 MARPAT
TITLE: Preparation of 2-benzyl-1-(triazolylmethyl)-1-cyclopentanol agrochemical microbiocides and fungicides
INVENTOR(S): Jautelat, Manfred; Tiemann, Ralf; Dutzmann, Stefan; Stenzel, Klaus
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19520098	A1	19961205	DE 1995-19520098	19950601
WO 9638423	A1	19961205	WO 1996-EP2162	19960520

W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO,
NZ, PL, RO, RU, SK, TR, UA, US
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9659001	A1	19961218	AU 1996-59001	19960520
EP 828719	A1	19980318	EP 1996-916134	19960520
EP 828719	B1	19991201		
R: DE, FR, GB				
JP 11505853	T2	19990525	JP 1996-536139	19960520
ZA 9604468	A	19970206	ZA 1996-4468	19960531

PRIORITY APPLN. INFO.: DE 1995-19520098 19950601
WO 1996-EP2162 19960520

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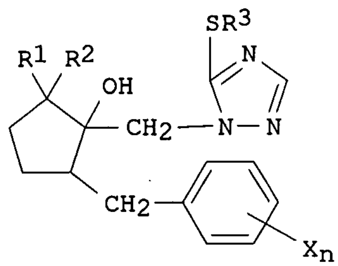

I

AB The title compds. [I; R1, R2 = H, C1-6 alkyl; R3 = H, C1-4 alkyl; X = halogen, (un)substituted alkyl, Ph, PhO; n = 0-2], useful as agrochem. microbiocides, are prepared Thus, (Z)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(1,2,4-triazol-1-ylmethyl)-1-cyclopentanol was reacted with sulfur and n-BuLi, producing (Z)-5-(4-chlorobenzyl)-2,2-dimethyl-1-(5-mercapto-1,2,4-triazol-1-ylmethyl)-1-cyclopentanol, m.p. 179-180°, which demonstrated >70% fungicidal control of Venturia inaequalis-infested apples.

L18 ANSWER 3 OF 4 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 125:275293 MARPAT
TITLE: Preparation of 3-alkyl-2-cyclopentanonecarboxylates
INVENTOR(S): Hoshi, Hajime; Kumazawa, Satoru
PATENT ASSIGNEE(S): Kureha Kagaku Kogyo Kabushiki Kaisha, Japan
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 731083	A1	19960911	EP 1996-301518	19960306
R: CH, DE, FR, GB, LI				
JP 08245517	A2	19960924	JP 1995-78365	19950310
US 5681979	A	19971028	US 1996-609374	19960301

PRIORITY APPLN. INFO.: JP 1995-78365 19950310
OTHER SOURCE(S): CASREACT 125:275293
GI